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OM protein - protein search, using sw model

Run on: September 13, 2005, 15:40:10 ; Search time 43 Seconds

(without alignments)
404,494 Million cell updates/sec

Title: US-09-597-920B-4

Perfect score: 1227
Sequence: 1 MEAAILVPCVGLILPILAA.....FAEEVEEGADPYENIQELN 233

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

- Issued Patents AA:*
- 1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
 - 2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
 - 3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
 - 4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
 - 5: /cgn2_6/ptodata/1/iaa/PTUS_COMB.pep.*
 - 6: /cgn2_6/ptodata/1/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1202.5	98.0	262	4 US-09-949-016-8622	Sequence 8622, Ap
2	116	9.5	2090	4 US-09-538-092-1081	Sequence 1081, Ap
3	116	9.5	2120	4 US-09-949-016-9768	Sequence 9768, Ap
4	113.5	9.3	2414	4 US-08-227-536-2	Sequence 2, Appl
5	113.5	9.3	2414	4 US-09-538-092-1289	Sequence 1289, Ap
6	113.5	9.3	2414	5 PCT-US95-04682-2	Sequence 2, Appl
7	112	9.1	520	4 US-09-949-016-9918	Sequence 9918, Ap
8	112	9.1	1958	4 US-07-945-283-2	Sequence 2, Appl
9	111	9.0	455	4 US-09-270-767-45531	Sequence 45531, A
10	110	9.0	571	4 US-09-252-991A-30533	Sequence 30533, A
11	106.5	8.7	1298	2 US-08-630-473-2	Sequence 2, Appl
12	106.5	8.7	1298	3 US-09-259-821A-2	Sequence 2, Appl
13	106.5	8.7	1298	3 US-08-843-659-2	Sequence 2, Appl
14	106.5	8.7	1298	4 US-09-825-288A-2	Sequence 2, Appl
15	106	8.6	1026	4 US-09-949-016-6777	Sequence 6777, Ap
16	106	8.6	1034	4 US-09-949-016-10870	Sequence 10870, A
17	105.5	8.6	4019	4 US-09-854-133-425	Sequence 425, App
18	105	8.6	520	4 US-09-107-433-3721	Sequence 3721, Ap
19	104.5	8.5	1219	4 US-09-823-240A-2	Sequence 2, Appl
20	104.5	8.5	1219	4 US-09-344-624-4	Sequence 4, Appl
21	104	8.5	2441	3 US-08-194-468-2	Sequence 2, Appl
22	104	8.5	2441	3 US-08-961-739-2	Sequence 2, Appl
23	104	8.5	2441	3 US-09-514-247A-8	Sequence 8, Appl
24	104	8.5	2441	4 US-09-686-316-2	Sequence 2, Appl
25	104	8.5	2442	3 US-09-514-247A-10	Sequence 10, Appl
26	104	8.5	2442	4 US-09-538-092-1370	Sequence 1370, Ap
27	103.5	8.4	865	3 US-09-281-766-19	Sequence 19, Appl

28	103.5	8.4	865	4 US-09-612-858-19	Sequence 19, Appl
29	103.5	8.4	865	4 US-09-957-995A-19	Sequence 19, Appl
30	103	8.4	300	4 US-09-949-016-5962	Sequence 5962, Ap
31	103	8.4	329	4 US-09-949-016-10363	Sequence 10363, A
32	102	8.3	329	4 US-09-270-767-46043	Sequence 46043, A
33	101	8.2	280	4 US-09-949-016-11646	Sequence 11646, A
34	101	8.2	1048	4 US-09-171-699-10	Sequence 10, Appl
35	100.5	8.2	580	4 US-09-270-767-41648	Sequence 41648, A
36	100.5	8.2	961	4 US-09-538-092-1231	Sequence 1231, Ap
37	100.5	8.2	1065	4 US-09-949-016-11618	Sequence 11618, A
38	100.5	8.2	1187	4 US-08-320-559-28	Sequence 28, Appl
39	100.5	8.2	1187	5 PCT-US94-04496-28	Sequence 28, Appl
40	100.5	8.2	1187	5 PCT-US94-04496-28	Sequence 28, Appl
41	100.5	8.2	1210	1 US-08-320-559-26	Sequence 26, Appl
42	100.5	8.2	1210	3 US-08-545-860D-26	Sequence 26, Appl
43	100.5	8.2	1210	3 US-09-538-092-1179	Sequence 1179, Ap
44	100.5	8.2	1210	5 PCT-US94-04496-26	Sequence 26, Appl
45	100	8.1	739	4 US-09-902-540-10606	Sequence 10606, A

ALIGNMENTS

RESULT 1
US-09-949-016-8622
; Sequence 8622, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO: 8622
; LENGTH: 262
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-8622

Query Match 98.0%; Score 1202.5; DB 4; Length 262;
Best Local Similarity 88.9%; Pred. No. 1.5e-103;
Matches 233; Conservative 0; Mismatches 0; Indels 29; Gaps 1;
1 MEAAILVPCVGLILPILAA.....FAEEVEEGADPYENIQELN 233
1 MEAAILVPCVGLILPILAA.....FAEEVEEGADPYENIQELN 233
61 PPAYPEVTSYPLSGDPLIPRSPGPGGSHRTBSRRSDGANSVASVENE-----118
61 PPAYPEVTSYPLSGDPLIPRSPGPGGSHRTBSRRSDGANSVASVENE-----118
61 PPAYPEVTSYPLSGDPLIPRSPGPGGSHRTBSRRSDGANSVASVENE-----118
61 PPAYPEVTSYPLSGDPLIPRSPGPGGSHRTBSRRSDGANSVASVENE-----118
114 -----EPACEDADEDEDYHNGYVLPDPSTPASTAPASAP 151
121 AQAQGWGSPWTRLTPLVSLPPEPACEDADEDEDYHNGYVLPDPSTPASTAPASAP 180
152 ALSTPGIRDSARMSIDIDYVVPESGESAASLDSREYVWVSOELHGAATKTEPAALS 211
181 ALSTPGIRDSARMSIDIDYVVPESGESAASLDSREYVWVSOELHGAATKTEPAALS 240
212 SOBAEVEEGADPYENIQELN 233
241 SOBAEVEEGADPYENIQELN 262

```
RESULT 2
US-09-538-092-1081
; Sequence 1081, Application US/09538092
; Patent No. 675314
; GENERAL INFORMATION:
; APPLICANT: Glot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538, 092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 1081
; LENGTH: 2090
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number P35658
US-09-538-092-1081

Query Match
Best Local Similarity 24.9%; Score 116; DB 4; Length 2090;
Matches 52; Conservative 20; Mismatches 85; Indels 52; Gaps 7;

QY 35 SYDSTSSDLYPRGIGFKRPHVTAPWPAPVPTSYPLSQDLPILPSPQ-PLGSGHR 93
DB 1440 SFGSQQTNSIVP-----PSAPPTTAATPLPTSFPTLSFGSLSSATTPSLPMAGNS 1492
QY 94 T-----PSSRRSDGANSVASYENEPACEDADEDEDYHNPGLVLPDSTPATST 145
DB 1493 TEEATSSALPEKPGDSEVSASASALLEEQSAQ-----LPQAPQTSQ 1535
QY 146 AAPSALSTPGIRDS-----AFSMESIDYVNPESGESASASIDGSRVYVNS 195
DB 1536 SVKKEPVLAQPAVNSGTASSTSLVALSAEATPATTVGPD--RTEAVPPASSFSV--- 1590
QY 196 QELHPGAKTPEPALSSQEAEEVEEGAP 224
DB 1591 ----PGQTAVTAAAISSAGPVAVETSSSTP 1615

RESULT 3
US-09-949-016-9768
; Sequence 9768, Application US/09949016
; Patent No. 6812338
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9768
; LENGTH: 2120
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9768
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Query Match
Best Local Similarity 24.9%; Score 116; DB 4; Length 2120;
Matches 52; Conservative 20; Mismatches 85; Indels 52; Gaps 7;

QY 35 SYDSTSSDLYPRGIGFKRPHVTAPWPAPVPTSYPLSQDLPILPSPQ-PLGSGHR 93
DB 1470 SFGSQQTNSIVP-----PSAPPTTAATPLPTSFPTLSFGSLSSATTPSLPMAGNS 1522
QY 94 T-----PSSRRSDGANSVASYENEPACEDADEDEDYHNPGLVLPDSTPATST 145
DB 1523 TEEATSSALPEKPGDSEVSASASALLEEQSAQ-----LPQAPQTSQ 1565
QY 146 AAPSALSTPGIRDS-----AFSMESIDYVNPESGESASASIDGSRVYVNS 195
DB 1566 SVKKEPVLAQPAVNSGTASSTSLVALSAEATPATTVGPD--RTEAVPPASSFSV--- 1620
QY 196 QELHPGAKTPEPALSSQEAEEVEEGAP 224
DB 1621 ----PGQTAVTAAAISSAGPVAVETSSSTP 1645

RESULT 4
US-08-227-536-2
; Sequence 2, Application US/08227536
; Patent No. 5658784
; GENERAL INFORMATION:
; APPLICANT: Eckner, Richard
; APPLICANT: Ewen, Mark
; APPLICANT: Livingston, David
; TITLE OF INVENTION: NUCLEIC ACID, ENCODING TRANSCRIPTION
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
; STREET: Ten Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/227,536
; FILING DATE: 14-APR-1994
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Ph.D., Kathleen A.
; REGISTRATION NUMBER: 34,380
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-2290
; TELEFAX: (617) 451-0313
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-227-536-2

Query Match
Best Local Similarity 24.2%; Score 113.5; DB 1; Length 2414;
Matches 55; Conservative 24; Mismatches 103; Indels 45; Gaps 9;

QY 27 VHCHRLPGSYDSTSSDLYPRGIGFKRPHVTAPWPAPVPTSYPLSQDLPILPSPQ-PLGSGHR 84
DB 817 IHCPQDLPALHQNPSVPS--RTPTPHHPPTSGAQQPPATTTIPAPVPTPPAMPPEQ 874
QY 85 PPLGSGHRTPESSRRSDGANSVASYENEPACEDADEDEDYHNPGLVLPDSTPATST 144
```

Db 875 SQL-----HPPRQTPPTTQLPQVQPSLPAAPSADQPOQ-----PRSQOSTA 921
QY 145 TAAPS-----APALSTPGIRDSAFMSIDYVNVPESGESAASLDGSRXYNV 194
Db 922 ASVPTPNAPLLPPQATPLSQPAV-----SIEQVSNPSTSTEVNSQAIAE-KOP 972
QY 195 SOEL-----HPGAaktePALSSQAEVEEBCADPYENLOEL 232
Db 973 SOEVKMEAKMEVDQPEPADTQPEDISESKVEDCKMESTETERSTEL 1019

RESULT 5

US-09-538-092-1289
; Sequence 1289, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Glot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 1289
; LENGTH: 2414
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number Q09472
US-09-538-092-1289

Query Match 9.3%; Score 113.5; DB 4; Length 2414;
Best Local Similarity 24.2%; Pred. No. 0.32;
Matches 55; Conservative 24; Mismatches 103; Indels 45; Gaps 9;

QY 27 VHCHRLPGSGYDSTSSSLYRGIOFKRPHVAPWPPA-YPPVTSY-PLSQPDLPIPRS 84
Db 817 IHCPOQLPQALHONSBSVPVS--RTPTPHHTPSIGAQPPATTIPAPVPTPPAMPBPGQ 874
QY 85 PPLGSGHRTSPSSRRSDGANSVASYENEPACEDADEDEDYHNPGLVLPDSTPATIS 144
Db 875 SQL-----HPPRQTPPTTQLPQVQPSLPAAPSADQPOQ-----PRSQOSTA 921
QY 145 TAAPS-----APALSTPGIRDSAFMSIDYVNVPESGESAASLDGSRXYNV 194
Db 922 ASVPTPNAPLLPPQATPLSQPAV-----SIEQVSNPSTSTEVNSQAIAE-KOP 972
QY 195 SOEL-----HPGAaktePALSSQAEVEEBCADPYENLOEL 232
Db 973 SOEVKMEAKMEVDQPEPADTQPEDISESKVEDCKMESTETERSTEL 1019

RESULT 6

PCT-US95-04682-2
; Sequence 2, Application PC/TUS9504682
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: NUCLEIC ACID ENCODING TRANSCRIPTION
; TITLE OF INVENTION: FACTOR P300 AND USES OF P300
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
; STREET: Ten Post Office Square
; CITY: Boston
; STATE: MA
; COUNTRY: US

ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/04682
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/227,536
; FILING DATE: 14-April-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Holliday C. Heine, Ph.D.
; REGISTRATION NUMBER: 34,346
; REFERENCE/DOCKET NUMBER: DFCI-308Xq999
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-2290
; TELEFAX: (617) 451-0313
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2414 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-04682-2

Query Match 9.3%; Score 113.5; DB 5; Length 2414;
Best Local Similarity 24.2%; Pred. No. 0.32;
Matches 55; Conservative 24; Mismatches 103; Indels 45; Gaps 9;

QY 27 VHCHRLPGSGYDSTSSSLYRGIOFKRPHVAPWPPA-YPPVTSY-PLSQPDLPIPRS 84
Db 817 IHCPOQLPQALHONSBSVPVS--RTPTPHHTPSIGAQPPATTIPAPVPTPPAMPBPGQ 874
QY 85 PPLGSGHRTSPSSRRSDGANSVASYENEPACEDADEDEDYHNPGLVLPDSTPATIS 144
Db 875 SQL-----HPPRQTPPTTQLPQVQPSLPAAPSADQPOQ-----PRSQOSTA 921
QY 145 TAAPS-----APALSTPGIRDSAFMSIDYVNVPESGESAASLDGSRXYNV 194
Db 922 ASVPTPNAPLLPPQATPLSQPAV-----SIEQVSNPSTSTEVNSQAIAE-KOP 972
QY 195 SOEL-----HPGAaktePALSSQAEVEEBCADPYENLOEL 232
Db 973 SOEVKMEAKMEVDQPEPADTQPEDISESKVEDCKMESTETERSTEL 1019

RESULT 7

US-09-949-016-9918
; Sequence 9918, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9918
; LENGTH: 520
; TYPE: PRT
; ORGANISM: Human

US-09-949-016-9918

Query Match 9.1%; Score 112; DB 4; Length 520;

Best Local Similarity 24.3%; Pred. No. 0.052; Mismatches 79; Indels 58; Gaps 11;

Matches 51; Conservative 22; Mismatches 79; Indels 58; Gaps 11;

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QY 33 PGSDYTSDDSLYPRGIQFKRPTVAWPPAYPVTSYPLSQP-----DLLP---IPRSP 85
DB 58 PSQEPSSKSDSATSEGE-----SPPGDAPPSKVPPCQEPQPPAQDLSPCQDLPAG 108
QY 86 QPFGSHRTSSRRSDSGANSVSYENEPPACEDADE-----DDYHNPYLVL 136
DB 109 EPL--PHQPLTKDLPALQE--SPTRDLPCCQDLPPSQVSLPAKALTEBDMSSGDLTA 164
QY 137 POSTPATSTAPAPALSTPGIR-DSAFSMESIDYVNPESGESASLDGSRVYNNV 195
DB 165 TGDP-----AAP-RPAFTVPEVRLDSTYSOKA-----GABQCGSGDEDAERA 207
QY 196 QELHPGAKTEPAALSSQEAEEVEEGCAP 225
DB 208 EEVEEG-----EEGEDEDEDEDTSD 226
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RESULT 8

US-07-945-283-2

Sequence 2, Application US/07945283

Patent No. 5352596

GENERAL INFORMATION:

APPLICANT: Cheung, Andrew K.

APPLICANT: Wesley, Ronald D.

TITLE OF INVENTION: Pseudorabies Virus Deletion Mutants

TITLE OF INVENTION: Involving The EP0 and L1L Genes

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESSER: Curtis P. Ribando

STREET: 1815 No. 5352596th University Street

CITY: Peoria

STATE: IL

COUNTRY: USA

ZIP: 61604

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/945,283

FILING DATE: 19920911

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Ribando, Curtis P

REGISTRATION NUMBER: 27976

TELEPHONE: 309-685-4011 ext. 513

TELEFAX: 309-685-4128

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1958 amino acids

TYPE: AMINO ACID

TOPOLOGY: linear

MOLECULE TYPE: protein

US-07-945-283-2

Query Match 9.1%; Score 112; DB 1; Length 1958;

Best Local Similarity 35.3%; Pred. No. 0.33; Mismatches 26; Indels 24; Gaps 3;

Matches 30; Conservative 5; Mismatches 26; Indels 24; Gaps 3;

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QY 59 PWPAPVPTSYPLSQPDLPIPRSPQLGSG-----HRTSSRRDS 101
DB 483 PSEPPPP-----PPLPPPPPPPPPPPPAGSARRRRGGGGPPRGRRGRRRR 538
QY 102 DGANSVASYENEPACEDADEDD 126
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DB 539 EGTEAAMADAEER---EDGEDDEDE 560

RESULT 9

US-09-270-767-45531

Sequence 45531, Application US/09270767

Patent No. 6703491

GENERAL INFORMATION:

APPLICANT: Hombrugger et al.

TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

FILE REFERENCE: File Reference: 7326-094

CURRENT FILING DATE: 1999-03-17

NUMBER OF SEQ ID NOS: 62517

SOFTWARE: Patent Ver. 2.0

SEQ ID NO 45531

LENGTH: 455

TYPE: PRT

ORGANISM: Drosophila melanogaster

US-09-270-767-45531

Query Match 9.0%; Score 111; DB 4; Length 455;

Best Local Similarity 21.3%; Pred. No. 0.053; Mismatches 106; Indels 82; Gaps 9;

Matches 57; Conservative 23; Mismatches 106; Indels 82; Gaps 9;

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QY 34 GSYDSTSSDLYPRGIQFKRP-----HTVAPWPPAYP---PVTS----- 69
DB 165 GSNNNTNMSFPIPHLRFTPTRQQAPRQNVLPANQPTPPPGAPPAVASSNNRS 224
QY 70 -----YPLSQPDLPIPRSPOP-----LGSHRTSSRRDS-- 101
DB 225 GQTPMFAAPLNNHPPAVMGMVPLSPSPMPASLPWNSPLFKITPLQQAAPAKSNDGQ 284
QY 102 ----DGANSVASYENEPACEDA-----DEDEDYHNPYLVLVDSTPA 142
DB 285 NDDVDNCFPSLYSQSQAVANASAMPSCVPHGPADASDKDDDMED--LVQLDDDED 342
QY 143 TSTAAPAPALSTPGIRDSAFSMESIDY-----VNPESGESASLDGSRVYNNV 196
DB 343 TDIPLPLGP---EPREVPPKVPKSSDDDLVERPENTBEERPEEMBEESCDAPTEKSESS 399
QY 197 ELHPGAKTEPAALSSQEAEEVEEGCAP 224
DB 400 DHEPSNSNVQAAAPVENDAEARTSTP 427
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RESULT 10

US-09-252-991A-30533

Sequence 30533, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 30533

LENGTH: 571

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-30533

Query Match 9.0%; Score 110; DB 4; Length 571;

Best Local Similarity 22.1%; Pred. No. 0.091; Mismatches 92; Indels 68; Gaps 9;

Matches 54; Conservative 30; Mismatches 92; Indels 68; Gaps 9;

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QY 39 TSSDSLPRGIQFKRPTVAWPPAY-----PVTSYPLSQPDLPIPRSPQ 86
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Db      315 TRPTVPSG-----SVARQAPAVSARVAASTQAREPVSAPVDEPPLVVSHPQ 367
QY      87 PLGGSHRTPS-----SRDSDGANSV-ASYENEPACEADEDE-DDYHNPGLVVL 138
Db      368 IAGTHERPQPGFPAKTAAEVASTQASVQDSPPAPTAGGGERGERGPG--ETDPS 425
QY      139 STRTSTAAPSAPLSTFGIR-----DSAFSMESIDYVNPVSGESA 181
Db      426 ALPPDDQAPVPLPAMQTPGDRLVARLLASGSRPLPLADLARLDVAQGH1QVASAESH 485
QY      182 EASLDGSEYVNVSOELHPGAKTPEPALSSQEAEEVEEGAPD-----YENL 229
Db      486 AARL-----QVLPOLGAVEVYLGHGQLQVEISASPSGLAFLQOARGELLRL 535
QY      230 QELN 233
Db      536 QRLH 539

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RESULT 11

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US-08-690-473-2
; Sequence 2, Application US/08690473
; Patent No. 5876923
; GENERAL INFORMATION:
; APPLICANT: Leopardi, Rosario
; APPLICANT: Roizman, Bernard
; TITLE OF INVENTION: HERPES SIMPLEX VIRUS ICP4 AS AN
; TITLE OF INVENTION: INHIBITOR OF APOPTOSIS
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/690.473
; FILING DATE: 26-JUL-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: ARCD:239
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1298 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
US-08-690-473-2

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Query Match

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Best Local Similarity 8.7%; Score 106.5; DB 2; Length 1298;
Matches 49; Conservative 19; Mismatches 73; Indels 63; Gaps 7;

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QY      82 PRSPPLGSGHRTPSRRDSDGANSVASYENB-----PAC 117
Db      9 PGSPGPTDGPPTPSPPRDERGALGCGA-ETEEGDDPDHDPHPDLDDARRDGRAPAA 67
QY      118 -EDADEDEDYHNPGLVVL-----PDSTPATSTAAPSAPALSTPGIRDSAFSMESIDYV 172
Db      68 GTDAGDAGDVAVSPRLALLASVVEAVRTIPTPDPAASPPRTPAFRADDODDDEVDDAA 127

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QY      173 N-----VPESGEAASLDGSEYVNVSOELHP-----G 201
Db      128 DAAGDAPAPARGREREAFLRGA--YDPPTDLSPRPAQPPRRRRHGRMPASSTSSDSG 185
QY      202 AAKTEPALSSQEAEEVEEGAPD 225
Db      186 SSSSSASSSSSSDEDEDDGND 209

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RESULT 12

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US-09-259-821A-2
; Sequence 2, Application US/09259821A
; Patent No. 6210926
; GENERAL INFORMATION:
; APPLICANT: LEOPARDI, ROSARIO
; APPLICANT: ROIZMAN, BERNARD
; TITLE OF INVENTION: HERPES SIMPLEX VIRUS ICP4 IS AN INHIBITOR OF APOPTOSIS
; FILE REFERENCE: ARCD:317
; CURRENT APPLICATION NUMBER: US/09/259,821A
; CURRENT FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: 08/690,473
; PRIOR FILING DATE: 1996-07-26
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1298
; TYPE: PRT
; ORGANISM: HERPES VIRUS, TYPE 1
US-09-259-821A-2

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Query Match

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Best Local Similarity 8.7%; Score 106.5; DB 3; Length 1298;
Matches 49; Conservative 19; Mismatches 73; Indels 63; Gaps 7;

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QY      82 PRSPPLGSGHRTPSRRDSDGANSVASYENB-----PAC 117
Db      9 PGSPGPTDGPPTPSPPRDERGALGCGA-ETEEGDDPDHDPHPDLDDARRDGRAPAA 67
QY      118 -EDADEDEDYHNPGLVVL-----PDSTPATSTAAPSAPALSTPGIRDSAFSMESIDYV 172
Db      68 GTDAGDAGDVAVSPRLALLASVVEAVRTIPTPDPAASPPRTPAFRADDODDDEVDDAA 127
QY      173 N-----VPESGEAASLDGSEYVNVSOELHP-----G 201
Db      128 DAAGDAPAPARGREREAFLRGA--YDPPTDLSPRPAQPPRRRRHGRMPASSTSSDSG 185
QY      202 AAKTEPALSSQEAEEVEEGAPD 225
Db      186 SSSSSASSSSSSDEDEDDGND 209

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RESULT 13

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US-08-643-659-2
; Sequence 2, Application US/08643659
; Patent No. 6218103
; GENERAL INFORMATION:
; APPLICANT: Leopardi, Rosario
; APPLICANT: Roizman, Bernard
; TITLE OF INVENTION: HERPES SIMPLEX VIRUS US3 AND ICP4 AS
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: United States
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 14, 2005, 22:05:46 ; Search time 248 Seconds
(without alignments)
6993.763 Million cell updates/sec

Title:	US-09-597-920B-1
Perfect score:	1060
Sequence:	1 gactctgcccttgagggc.....aaaaaaaaaaaaaaaa 1060

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405566

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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued_Patents_NA:*

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3: /cgn2_6/ptodata1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata1/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata1/ina/backfiles1.seq.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
1	605	57.1	789	4	US-09-949-016-2751	Sequence 2751, App1
2	416.8	39.3	528	4	US-09-023-655-565	Sequence 565, App1
3	265	25.0	8596	4	US-09-949-016-14493	Sequence 14493, App1
4	99	9.3	601	4	US-09-949-016-94821	Sequence 94821, App1
5	51.4	4.8	7218	1	US-08-232-463-14	Sequence 14, App1
6	44.2	4.2	45587	4	US-09-949-016-15836	Sequence 15836, App1
7	43.8	4.1	1926	3	US-09-249-5854-2	Sequence 4, App1
8	43.8	4.1	1931	2	US-09-130-114-2	Sequence 2, App1
9	42.4	4.0	1503	4	US-09-907-794A-220	Sequence 220, App1
10	42.4	4.0	1503	4	US-09-905-125A-220	Sequence 220, App1
11	42.4	4.0	1503	4	US-09-902-775A-220	Sequence 220, App1
12	42.4	4.0	1503	4	US-09-906-700-220	Sequence 220, App1
13	42.4	4.0	1503	4	US-09-903-603A-220	Sequence 220, App1
14	42.4	4.0	1503	4	US-09-904-920A-220	Sequence 220, App1
15	42.4	4.0	1503	4	US-09-909-064-220	Sequence 220, App1
16	42.4	4.0	1503	4	US-09-905-381A-220	Sequence 220, App1
17	42.4	4.0	1503	4	US-09-906-618-220	Sequence 220, App1
18	42	4.0	977	4	US-09-311-021-103	Sequence 103, App1
19	42	4.0	3083	4	US-09-155-246-1	Sequence 1, App1
20	42	4.0	4494	4	US-09-620-016-861	Sequence 861, App1
21	42	4.0	12695	4	US-09-949-016-16775	Sequence 16775, App1
22	41.8	3.9	1505	1	US-07-915-246-1	Sequence 1, App1
23	41.8	3.9	1600	3	US-07-861-458C-37	Sequence 37, App1
24	41.8	3.9	1607	6	5196333-3	Patent No. 5196333
25	41.6	3.9	1607	6	5196333-3	Patent No. 5196333
26	41.6	3.9	1160	3	US-08-995-159-1	Sequence 1, App1
27	41.6	3.9	1160	4	US-09-545-605-1	Sequence 1, App1

28	41.2	3.9	966	2	US-08-521-382-1	Sequence 1, Appl1
29	41.2	3.9	966	4	US-09-386-380-1	Sequence 1, Appl1
30	41.2	3.9	3469	2	US-08-728-323A-1	Sequence 1, Appl1
31	41.2	3.9	3469	3	US-09-298-566-1	Sequence 1, Appl1
32	41.2	3.9	3469	4	US-09-410-399-1	Sequence 1, Appl1
33	41.2	3.9	3469	4	US-09-894-273-1	Sequence 1, Appl1
34	41.2	3.9	32207	2	US-08-770-379-20	Sequence 20, Appl1
35	41.2	3.9	32207	3	US-08-757-669A-20	Sequence 20, Appl1
36	41.2	3.9	32207	3	US-09-230-371A-20	Sequence 20, Appl1
37	41	3.9	1366	3	US-09-200-965-1	Sequence 1, Appl1
38	40.8	3.8	3028	4	US-09-548-938A-2	Sequence 2, Appl1
39	40.4	3.8	997	4	US-09-800-729-15	Sequence 15, Appl1
40	40.4	3.8	1071	4	US-09-800-729-45	Sequence 45, Appl1
41	40.4	3.8	1086	4	US-09-800-729-48	Sequence 48, Appl1
42	40.4	3.8	1138	4	US-09-800-739-44	Sequence 44, Appl1
43	40.4	3.8	1149	4	US-09-800-729-47	Sequence 47, Appl1
44	40.4	3.8	1798	4	US-09-797-506-1	Sequence 1, Appl1
45	40.4	3.8	3168	4	US-09-502-540-8270	Sequence 8270, Appl1

ALIGNMENTS

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RESULT 1
US-09-949-016-2751
; Sequence 2751, Application US/09949016
; Patent No. 681239
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C0001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2751
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-2751

Query Match      57.1%; Score 605; DB 4; Length 789;
Best Local Similarity 89.0%; Pred. No.1,2e-141;
Matches 702; Conservative 0; Mismatches 0; Indels 87; Gaps 1;

QY      58  ATGAGGAGGCGCATCTGTCCTCCCTGCGTGTGGGGCTTCCTGCTCTGCGCCATCCTGAGCC 117
DB      1  ATGAGGAGGCGCATCTGTCCTCCCTGCGTGTGGGGCTTCCTGCTCTGCGCCATCCTGAGCC 60

QY      118  ATGTTGATGAGCAGTGTGTGTGTCACATGCGACAGACTGCGCAGAGCTCTTACAGACAGACATCC 177
DB      61  ATGTTGATGAGCAGTGTGTGTGTCACATGCGACAGACTGCGCAGAGCTCTTACAGACAGACATCC 120

QY      178  TCAGATAGTTGTATTCCAAGGGGCGCATCAGTTCAAACGGGCTCACAACGGTTGCCCCCTG 237
DB      121  TCAATATGTTGTATTCCAAGGGGCGCATCAGTTCAAACGGGCTCACAACGGTTGCCCCCTG 180

QY      238  CCACCTGCTTACCCACCTGTGTACCTCTTACCCACCCCTGAGCGCAGCAGACTGCTCCCC 297
DB      181  CCACCTGCTTACCCACCTGTGTACCTCTTACCCACCCCTGAGCGCAGCAGACTGCTCCCC 240

QY      298  ATCCCAAGATCCCGCAGCCCTTTGGGGGGCTCCCAACGGCCATCTTCCGGGGGGAT 357
DB      241  ATCCCAAGATCCCGCAGCCCTTTGGGGGGCTCCCAACGGCCATCTTCCGGGGGGAT 300

QY      358  TCTGATGGTGCCCAACAGTGTGGCGAGCTTACGAAACGAG----- 396

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Db      ||||| 301 TCTGATGTCGCAACAGTGTGGCGAGTACGAGAACGAGGGTGCCTGTGGATCCGAGGT 360
QY      ||||| 397 ----- 396
Db      ||||| 361 GCCAGGCTGGGTGGGAGTCTGGGCTCCCTCTGAGCTAGGCTGACCCCTGTGTGCTTA 420
QY      ||||| 397 ----- 396
Db      ||||| 421 CCCCCAGAACCACTCTGTAGATGCAATGAGATGAGGACCACTATTCACAACTCCAGGC 480
QY      ||||| 451 TACCTGTGTGCTTCTCTGACAGACACCCCGGCACTAGACCTGCTGCCCATCAGCTCCT 510
Db      ||||| 481 TACCTGTGTGCTTCTCTGACAGACACCCCGGCACTAGACCTGCTGCCCATCAGCTCCT 540
QY      ||||| 511 GCACCTAGACACCCCTGGCATCCGAGACAGTCTTCTCCATGAGATCATGATGATATAC 570
Db      ||||| 541 GCACCTAGACACCCCTGGCATCCGAGACAGTCTTCTCCATGAGATCATGATGATATAC 600
QY      ||||| 571 GTGAACGTTCCGAGAGCGGGAGAGAGCGAGAGCGCTCTGAGATGGCAGCGGAGTAT 630
Db      ||||| 601 GTGAACGTTCCGAGAGCGGGAGAGAGCGAGAGCGCTCTGAGATGGCAGCGGAGTAT 660
QY      ||||| 631 GTGAATGTGTCCGAGAACCTGATCTTGAAGCGGCTTAAGACTGAGCCTGCGCCTGAGT 690
Db      ||||| 661 GTGAATGTGTCCGAGAACCTGATCTTGAAGCGGCTTAAGACTGAGCCTGCGCCTGAGT 720
QY      ||||| 691 TCCAGAGAGCAGAGAGAGTGAAGAGAGGGGCTCCAGATTACAGAAATCTGACAGAG 750
Db      ||||| 721 TCCAGAGAGCAGAGAGAGTGAAGAGAGGGGCTCCAGATTACAGAAATCTGACAGAG 780
QY      ||||| 751 CTGAACCTGA 759
Db      ||||| 781 CTGAACCTGA 789

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RESULT 2
US-09-023-655-565
; Sequence 565, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Selhammer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555

```

```

; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 565:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 528 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: HIPONOT01
; CLONE: 240885
US-09-023-655-565

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Query Match          39.3%; Score 416.8; DB 4; Length 528;
Best local similarity 99.3%; Pred. No. 1.2e-94;
Matches 429; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

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QY      ||||| 599 CAGAACGTCCTGTGATGGCAGCCCGGAGTATGTGATGCCAGAGAACTGCATCTTG 658
Db      ||||| 1 CAGAACGTCCTGTGATGGCAGCCCGGAGTATGTGATGCCAGAGAACTGCATCTTG 60
QY      ||||| 659 GAGCGGCTAAGACTGAGCCTGCGGCTGAGTTCCAGAGAGCAGAGAGTGAAG 718
Db      ||||| 61 GAGCGGCTAAGACTGAGCCTGCGGCTGAGTTCCAGAGAGCAGAGAGTGAAG 120
QY      ||||| 719 AGGGGGCTCAGATTACGAAATCTGACAGAGCTGAAGAGGCTGTGAGCGAGT 778
Db      ||||| 121 AGGGGGCTCAGATTACGAAATCTGACAGAGCTGAAGAGGCTGTGAGCGAGT 180
QY      ||||| 779 CTGTCTGAGAACCAAGCTTGGCTTGAG-ACGGCTGAGCTGGGAGCTGGAAGTGGCTTGG 837
Db      ||||| 181 CTGTCTGAGAACCAAGCTTGGCTTGAG-ACGGCTGAGCTGGGAGCTGGAAGTGGCTTGG 240
QY      ||||| 838 GGTCCTCAGATGCGGCTGCGGCTTGTCTCAGCTGACCAAGCAAGCCTGGAATCCCCCGG 897
Db      ||||| 241 GGTCCTCAGATGCGGCTGCGGCTTGTCTCAGCTGACCAAGCAAGCCTGGAATCCCCCGG 300
QY      ||||| 898 TAATTATTATCATTGTGGGGTTGGGCTGTGTGCTCCCGAAGCTCTGACCTTGTAGC 957
Db      ||||| 301 TAATTATTATCATTGTGGGGTTGGGCTGTGTGCTCCCGAAGCTCTGACCTTGTAGC 360
QY      ||||| 958 CAGCTGAGAAATGACCTGCGCTGCGGCTTGTCTGTGTATTAAGAAATGAAGCCTG 1017
Db      ||||| 361 CAGCTGAGAAATGACCTGCGGCTTGTCTGTGTATTAAGAAATGAAGCCTG 420
QY      ||||| 1018 CGGTGTCTGTG 1029
Db      ||||| 421 CGGTGTCTGTG 432

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RESULT 3
US-09-949-016-14493
; Sequence 14493, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14493
; LENGTH: 8596
; TYPE: DNA
; ORGANISM: Human
; FEATURE:

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; NAME/KEY: misc_feature
; LOCATION: (1)-(8596)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14493
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Query Match          25.0%; Score 265; DB 4; Length 8596;
Best Local Similarity 98.2%; Pred. No. 3,7e-56;
Matches 268; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY 757 TGAGGCGCTGTGGAGCGCGAGTGTCTTGAACACAGGCTTGGCGGAGGCTGAGCTG 816
DB 6762 TGTGTTTCAAGTGGAGCGCGAGTGTCTTGAACACAGGCTTGGCGGAGGCTGAGCTG 6821
QY 817 GCGAGCTGGAAGGCGCTTGGGCTTCCCAATGAGCGCTTCCCTTCTCAGCTTACA 876
DB 6822 GCGAGCTGGAAGGCGCTTGGGCTTCCCAATGAGCGCTTCCCTTCTCAGCTTACA 6881
QY 877 ACAGCGTGAAGAAATCCCGCGTAATATTATCACTTGGGGTTTGGCGCTGTGTCCCGG 936
DB 6882 ACAGCGTGAAGAAATCCCGCGTAATATTATCACTTGGGGTTTGGCGCTGTGTCCCGG 6941
QY 937 AACGCTCTGACCTTCTGACGACGCGCTGAGAATGACCTTGGCGCGCGGCTTACTCT 996
DB 6942 AACGCTCTGACCTTCTGACGACGCGCTGAGAATGACCTTGGCGCGCGGCTTACTCT 7001
QY 997 GTGTATAAGATAAAGCGCTGCTGTCTGTG 1029
DB 7002 GTGTATAAGATAAAGCGCTGCTGTCTGTG 7034
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RESULT 4
US-09-949-016-94821
; Sequence 94821, Application US/09949016
; Patent No. 6812339
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; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 94821
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-94821
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Query Match          9.3%; Score 99; DB 4; Length 601;
Best Local Similarity 95.3%; Pred. No. 4.5e-15;
Matches 102; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY 451 TACCTGTGTGCTTCTCTGACAGACCCCGGCACTAGACATGCTGCGCCCATAGGCTCT 510
DB 419 TTGAGGTGTGCTTCTCTGACAGACCCCGGCACTAGACATGCTGCGCCCATAGGCTCT 478
QY 511 GCACTGACAGCCCTGGCATCCGAGACAGTGCCTTCTCCATGAGATC 557
DB 479 GCACTGACAGCCCTGGCATCCGAGACAGTGCCTTCTCCATGAGATC 525
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RESULT 5
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
```

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; APPLICANT: DORNER, F.
; APPLICANT: SCHRIEFELINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: PT29pt-Fls
US-08-232-463-14
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Query Match          4.8%; Score 51.4; DB 1; Length 7218;
Best Local Similarity 7.1%; Pred. No. 0.0099;
Matches 22; Conservative 168; Mismatches 119; Indels 0; Gaps 0;
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QY 41 TCCGAGCTCCCTCGCATGAGAGGAGCCATCTGCTCCCTGCGCTGCGGCTCTGCG 100
DB 1032 TCCGAGCTTGGCTGCGAGGTGCGAGGAGCTTGCATATATATATATATATATATATAT 1091
QY 101 TCGTCCCATCTGCGCATGATGACATGCTGTGTGACATGCGACAGATCGAGGCT 160
DB 1092 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1151
QY 161 CCTACAGACAGCATCTCGATAGTTGTATCCAAAGGAGCATCCAGTTCAACGGCTTC 220
DB 1152 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1211
QY 221 ACAGGTTGCCCTTGGCACTGCTACCACTGTACCTCTACCTACCAACCCCTGAGCC 280
DB 1212 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1271
QY 281 AGCAGACCTGCTCCCATCCCAAGATCCCGAGCCCTTGGGGGCTCCACCGGAGCG 340
DB 1272 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1331
QY 341 CATCTTCC 349
DB 1332 YYYYYYYY 1340
```

```
RESULT 6
US-09-949-016-15836
; Sequence 15836, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15836
; LENGTH: 45587
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15836

Query Match
Best Local Similarity 4.2%; Score 44.2; DB 4; Length 45587;
Matches 55; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 988 CCTACTCTGTCTAATAGATATAAGCGCTGCTGTCTGTGAAAAA 1047
DB 38333 CTCACCTCGGGATGAGCAAGACCCCTGTCTGTCTCAAAAAA 38392
QY 1048 AAAAAAAAAA 1060
DB 38393 AAAAAAAAAA 38405

RESULT 7
US-09-249-585A-4/c
; Sequence 4, Application US/09249585A
; Patent No. 6417002
; GENERAL INFORMATION:
; APPLICANT: Horlick, Robert
; TITLE OF INVENTION: METHOD FOR MAINTENANCE AND SELECTION OF EPISOMES
; FILE REFERENCE: 0867/0D905
; CURRENT APPLICATION NUMBER: US/09/249,585A
; CURRENT FILING DATE: 1999-02-11
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 4
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Epstein Barr Virus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1926)
; OTHER INFORMATION: template strand of EBNA-1 DNA
US-09-249-585A-4

Query Match
Best Local Similarity 4.1%; Score 43.8; DB 3; Length 1926;
Matches 135; Conservative 0; Mismatches 152; Indels 0; Gaps 0;

QY 552 GGAATCCATTGATGATTAAGTAAAGTCCGAGAGCGGAGAGCGGAGAGCGTCTCT 611
DB 575 GGAAGACGGGAGAGAGACGAGACGGGAGAGCGGAGAGCGGAGAGCGGAGAG 516
QY 612 GGAATGCAAGCGGAGAGATGATGTCTCCAGGAAGCTGCACTCTGAGCGGCTTAAG 671
DB 515 GGAAGAGAGAGCGGAGAGCGGAGAGCGGAGAGCGGAGAGCGGAGAGCGGAG 456
QY 672 TGAGCTGCGCGCTGATGCCAGAGAGCGGAGAGCGGAGAGCGGAGAGCGGAG 731
```

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DB 455 GGAAGACGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 396
QY 732 TTACGAAATTCGACGAGAGCTGAACTGAGGCGCTTGAGCGCGAGTCTCTGGAAC 791
DB 395 CAGAGACGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 336
QY 792 AGCTTTCCTGGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 838
DB 335 GGAAGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 289

RESULT 8
US-09-130-114-2/c
; Sequence 2, Application US/09130114
; Patent No. 5976807
; GENERAL INFORMATION:
; APPLICANT: Horlick, Robert A.
; APPLICANT: Damaj, Bassem B.
; APPLICANT: Robbins, Alan K.
; TITLE OF INVENTION: Eukaryotic Cells Stably Expressing Genes
; FILE REFERENCE: 0867/1D903U51
; CURRENT APPLICATION NUMBER: US/09/130,114
; CURRENT FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 1931
; TYPE: DNA
; ORGANISM: EBNA
US-09-130-114-2

Query Match
Best Local Similarity 4.1%; Score 43.8; DB 2; Length 1931;
Matches 135; Conservative 0; Mismatches 152; Indels 0; Gaps 0;

QY 552 GGAATCCATTGATGATTAAGTAAAGTCCGAGAGCGGAGAGCGGAGAGCGTCTCT 611
DB 575 GGAAGACGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 516
QY 612 GGAATGCAAGCGGAGAGATGATGTCTCCAGGAAGCTGCACTCTGAGCGGCTTAAG 671
DB 515 GGAAGAGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 456
QY 672 TGAGCTGCGCGCTGATGCCAGAGAGCGGAGAGCGGAGAGCGGAGAGCGGAG 731
DB 455 GGAAGACGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 396
QY 732 TTACGAAATTCGACGAGAGCTGAACTGAGGCGCTTGAGCGCGAGTCTCTGGAAC 791
DB 395 CAGAGACGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 336
QY 792 AGCTTTCCTGGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 838
DB 335 GGAAGAGAGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 289

RESULT 9
US-09-907-794A-220
; Sequence 220, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivartoff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
```

```

; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 220
; LENGTH: 1503
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-794A-220

Query Match      4.0%  Score 42.4;  DB 4;  Length 1503;
Best Local Similarity 66.3%;  Pred. No. 0.94;
Matches 61;  Conservative 0;  Mismatches 31;  Indels 0;  Gaps 0;

QY 969 TGACCTGCTGCGCCCGGAGGCTACTCTGTGTATAGATTAAGGCTGCGTGTGTGT 1028
    |||||
Db 1385 TGCGCTGCTGCGGAGGAGGCTCTCTCTGCGCAGAGGAGTAAGGAGGCGCGGAGCT 1444
    |||||

QY 1029 GGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1060
    |||||
Db 1445 TGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1476
    |||||
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```

RESULT 10
US-09-905-125A-220
; Sequence 220, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 220
; LENGTH: 1503
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/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-905-125A-220

Query Match
Best Local Similarity 4.0%; Score 42.4; DB 4; Length 1503;
Matches 61; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 969 TGACCTGCGCCCTGAGCCGCTACTCTGTGTAATAGAAAGCGCTGCTGTCTGT 1028
DB 1385 TGCCCTGGCTGGACACCTCTCTCTGCGCAGAGGCAATTAAGCCAGCGCGGACCT 1444
QY 1029 GGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1060
DB 1445 TGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1476

RESULT 11
US-09-902-775A-220
/ Sequence 220, Application US/09902775A
/ Patent No. 6686451
/ GENERAL INFORMATION:
/ APPLICANT: Genentech, Inc.
/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gertlisen, Mary E.
/ APPLICANT: Goddard, A.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth, J.
/ APPLICANT: Kijavlin, Ivar J.
/ APPLICANT: Mather, Jennie P.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William, I.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: 10466-14
/ CURRENT APPLICATION NUMBER: US/09/902,775A
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/145,698
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/146,222
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: PCT/US99/20594
/ PRIOR FILING DATE: 1999-09-08
/ PRIOR APPLICATION NUMBER: PCT/US99/20944
/ PRIOR FILING DATE: 1999-09-13
/ PRIOR APPLICATION NUMBER: PCT/US99/21090
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/21547
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/23089
/ PRIOR FILING DATE: 1999-10-05
/ PRIOR APPLICATION NUMBER: PCT/US99/28214
/ PRIOR FILING DATE: 1999-11-29
/ PRIOR APPLICATION NUMBER: PCT/US99/28313
```

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/ PRIOR FILING DATE: 1999-11-30
/ PRIOR APPLICATION NUMBER: PCT/US99/28564
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/28565
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/30095
/ PRIOR FILING DATE: 1999-12-16
/ PRIOR APPLICATION NUMBER: PCT/US99/30911
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US99/30999
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US00/00219
/ PRIOR FILING DATE: 2000-01-05
/ NUMBER OF SEQ ID NOS: 423
/ SEQ ID NO 220
/ LENGTH: 1503
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-902-775A-220

Query Match
Best Local Similarity 4.0%; Score 42.4; DB 4; Length 1503;
Matches 61; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 969 TGACCTGCGCCCTGAGCCGCTACTCTGTGTAATAGAAAGCGCTGCTGTCTGT 1028
DB 1385 TGCCCTGGCTGGACACCTCTCTCTGCGCAGAGGCAATTAAGCCAGCGCGGACCT 1444
QY 1029 GGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1060
DB 1445 TGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1476

RESULT 12
US-09-906-700-220
/ Sequence 220, Application US/09906700
/ Patent No. 6723535
/ GENERAL INFORMATION:
/ APPLICANT: Genentech, Inc.
/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gertlisen, Mary E.
/ APPLICANT: Goddard, A.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth, J.
/ APPLICANT: Kijavlin, Ivar J.
/ APPLICANT: Mather, Jennie P.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William, I.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: 10466-14
/ CURRENT APPLICATION NUMBER: US/09/906,700
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/US99/28214
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/145,698
```

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; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 220
; LENGTH: 1503
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-906-700-220
```

```

Query Match          4.0%; Score 42.4; DB 4; Length 1503;
Best Local Similarity 66.3%; Pred. No. 0.94;
Matches 61; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 969 TGACCTGCGCTGGCCCGACCTCTGTGTATAGATAAAGCGCTGCTGTCTGT 1028
    |||||
Db 1385 TGCGCTGGCGCTGGGACACCTCTCTCTGCCAGAGGCAATTAAGCCAGCGCGGACCT 1444
    |||||

QY 1029 GGAIAAAAAAAAAAAAAAAAAAAAAAAAAA 1060
    |||||
Db 1445 TGAIAAAAAAAAAAAAAAAAAAAAAAAAAA 1476
    |||||
```

```

RESULT 13
US-09-903-603A-220
; Sequence 220, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Batton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Pong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
```

```

; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCES: GNE.1618PC12
; CURRENT FILING DATE: 2001-07-11
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 220
; LENGTH: 1503
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-903-603A-220
```

```

Query Match          4.0%; Score 42.4; DB 4; Length 1503;
Best Local Similarity 66.3%; Pred. No. 0.94;
Matches 61; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 969 TGACCTGCGCTGGCCCGACCTCTGTGTATAGATAAAGCGCTGCTGTCTGT 1028
    |||||
Db 1385 TGCGCTGGCGCTGGGACACCTCTCTCTGCCAGAGGCAATTAAGCCAGCGCGGACCT 1444
    |||||

QY 1029 GGAIAAAAAAAAAAAAAAAAAAAAAAAAAA 1060
    |||||
Db 1445 TGAIAAAAAAAAAAAAAAAAAAAAAAAAAA 1476
    |||||
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RESULT 14
US-09-904-920A-220
; Sequence 220, Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
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APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/904,920A
CURRENT FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 220
LENGTH: 1503
TYPE: DNA
ORGANISM: Homo sapiens
US-09-904-920A-220

Query Match 4.0%; Score 42.4; DB 4; Length 1503;
Best Local Similarity 66.3%; Pred. No. 0.94;
Matches 61; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

969 TGACCTGGCCCTGGAGCCGACCTACTCTGTGTATAGATTAAGGCGCTGGTGTGTCTGT 1028

Db 1385 TGAGCTGGCCTGGAGACACCTCTCTGTGCGAGAGGCAATATAAGCGCGGAGACT 1444
QY 1029 GCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1060
Db 1445 TGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1476

RESULT 15
US-09-909-064-220
Sequence 220, Application US/09909064
Patent No. 6818449
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,064
CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
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PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20

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; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 220
; LENGTH: 1503
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-909-064-220

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Query Match      4.0%; Score 42.4; DB 4; Length 1503;
Best Local Similarity 66.3%; Pred. No. 0.94;
Matches 61; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

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DB 1385 TGGCTGGCTGGGACACTCTCTGTGCCAGAGGCAATTAAGCCAGCGCGGACT 1444
    |||||

QY 1029 GAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1060
    |||||
DB 1445 TAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1476
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 Job time : 270 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 13, 2005, 15:49:20 ; Search time 163 Seconds
(without alignments)
563.819 Million cell updates/sec

Title: US-09-597-920B-4

Perfect score: 1227
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Gapop 10.0 , Gapext 0.5

Searched: 1777461 seqs, 394431504 residues

Total number of hits satisfying chosen parameters: 1777461

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
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19: /cgn2_6/prodata/1/pubpaa/US10G_PUBCOMB.pep:*
20: /cgn2_6/prodata/1/pubpaa/US11_NEW_PUB.pep:*
21: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
22: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	262.5	21.4	101	US-10-935-098-58	Sequence 58, Appl
2	262.5	21.4	102	US-09-739-907-58	Sequence 58, Appl
3	262.5	21.4	102	US-09-938-671-58	Sequence 58, Appl
4	262.5	21.4	180	US-09-739-907-106	Sequence 106, App
5	262.5	21.4	180	US-09-938-671-106	Sequence 106, App
6	262.5	21.4	180	US-10-935-098-106	Sequence 106, App
7	123.5	10.1	160	US-10-437-963-174234	Sequence 106, App
8	120.5	9.8	371	US-10-425-114-63228	Sequence 63228, A
9	120.5	9.8	16	US-10-437-963-146700	Sequence 146700,
10	116	9.5	2127	US-10-367-057-43	Sequence 43, Appl
11	114.5	9.3	1000	US-10-128-714-3305	Sequence 3305, Ap

12	114	9.3	762	US-10-437-963-131253	Sequence 131253,
13	113.5	9.3	735	US-10-282-122A-69392	Sequence 69392, A
14	113.5	9.3	2414	US-10-473-127-634	Sequence 634, App
15	113.5	9.3	2414	US-10-473-127-641	Sequence 641, App
16	113.5	9.3	2414	US-10-473-127-642	Sequence 642, App
17	113.5	9.3	2414	US-10-473-127-644	Sequence 644, App
18	113.5	9.3	2414	US-10-473-127-646	Sequence 646, App
19	113.5	9.3	2414	US-10-732-923-18449	Sequence 18449, A
20	113.5	9.3	2414	US-10-756-149-5732	Sequence 5732, Ap
21	112.5	9.2	1177	US-10-193-692-4	Sequence 4, Appl1
22	112.5	9.2	1186	US-10-193-692-2	Sequence 2, Appl1
23	112	9.1	430	US-10-739-930-9638	Sequence 9638, Ap
24	112	9.1	519	US-10-113-794A-2	Sequence 2, Appl1
25	112	9.1	519	US-10-428-467-14	Sequence 14, Appl
26	112	9.1	519	US-10-258-371B-28	Sequence 28, Appl
27	112	9.1	517	US-10-487-092-15	Sequence 15, Appl
28	112	9.1	923	US-10-114-270-152	Sequence 152, App
29	111	9.0	169	US-10-425-115-224853	Sequence 224853,
30	110.5	9.0	299	US-10-477-876-2	Sequence 2, Appl1
31	110.5	9.0	299	US-10-981-737-2	Sequence 2, Appl1
32	110	9.0	346	US-10-437-963-184670	Sequence 184670,
33	110	9.0	584	US-10-156-761-12405	Sequence 12405, A
34	110	9.0	2957	US-10-732-923-8692	Sequence 8692, Ap
35	109.5	8.9	340	US-10-437-963-181586	Sequence 181586,
36	109.5	8.9	1151	US-09-825-751A-79	Sequence 79, Appl
37	109.5	8.9	1151	US-10-851-438-79	Sequence 79, Appl
38	109.5	8.9	1240	US-10-369-493-4031	Sequence 4031, Ap
39	109.5	8.9	509	US-10-732-923-16945	Sequence 16945, A
40	109	8.9	1244	US-10-437-963-106493	Sequence 106493,
41	109	8.9	1678	US-10-437-963-138217	Sequence 138217,
42	108.5	8.8	1343	US-10-408-765A-1085	Sequence 1085, Ap
43	108.5	8.8	1174	US-10-128-714-8176	Sequence 8176, Ap
44	108.5	8.8	1150	US-10-128-714-8176	Sequence 8176, Ap
45	108	8.8	829	US-10-369-493-3403	Sequence 3403, Ap

ALIGNMENTS

RESULT 1
US-10-935-098-58
Sequence 58, Application US/10935098
Publication No. US20050042667A1
GENERAL INFORMATION:
APPLICANT: Lafleur et al.
TITLE OF INVENTION: 36 Human Secreted Proteins
FILE REFERENCE: P2022P1C3
CURRENT APPLICATION NUMBER: US/10/935,098
PRIORITY FILING DATE: 2004-09-08
PRIORITY FILING NUMBER: 09/938,671
PRIORITY FILING DATE: 2001-08-27
PRIORITY FILING NUMBER: 09/739,907
PRIORITY FILING DATE: 2000-12-20
PRIORITY FILING NUMBER: 09/348,457
PRIORITY FILING DATE: 1999-07-07
PRIORITY FILING NUMBER: PCT/US99/00108
PRIORITY FILING DATE: 1999-01-06
PRIORITY FILING NUMBER: 60/70,657
PRIORITY FILING DATE: 1998-01-07
PRIORITY FILING NUMBER: 60/70,692
PRIORITY FILING DATE: 1998-01-07
PRIORITY FILING NUMBER: 60/70,704
PRIORITY FILING DATE: 1998-01-07
PRIORITY FILING NUMBER: 60/70,658
PRIORITY FILING DATE: 1998-01-07
NUMBER OF SEQ ID NOS: 196
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 58
LENGTH: 101
TYPE: PRT
ORGANISM: Homo sapiens
US-10-935-098-58


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; Sequence 106, Application US/09938671
; Publication No. US2004002066A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 36 Human Secreted Proteins
; FILE REFERENCE: P2022P1
; CURRENT APPLICATION NUMBER: US/09/938,671
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/348,457
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: 60/070,567
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,692
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,704
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,658
; PRIOR FILING DATE: 1998-01-07
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 106
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-938-671-106
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Best Local Similarity 65.5%; Pred. No. 1.3e-12;
Matches 57; Conservative 2; Mismatches 19; Indels 9; Gaps 2;
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DB      80 MEEAIVPCVLGILLPIILAMLMALCVHCHRLPGSYDSTSSDLYRGIQFKRPHTVAPW 60
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QY      61 PPAYPVTSYPPISQDPLPIRSPQP 87
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DB      134 SHGCPPLATCLPTC---HLPTPEPARP 157
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RESULT 6
US-10-935-098-106
; Sequence 106, Application US/10935098
; Publication No. US20050042667A1
; GENERAL INFORMATION:
; APPLICANT: Lafleur et al.
; TITLE OF INVENTION: 36 Human Secreted Proteins
; FILE REFERENCE: P2022P1C3
; CURRENT APPLICATION NUMBER: US/10/935,098
; PRIOR FILING DATE: 2004-09-08
; PRIOR APPLICATION NUMBER: 09/938,671
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/739,907
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/348,457
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: PCT/US99/00108
; PRIOR FILING DATE: 1999-01-06
; PRIOR APPLICATION NUMBER: 60/070,657
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,692
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,704
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,658
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 106
; LENGTH: 180
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-935-098-106
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Query Match      21.4%; Score 262.5; DB 17; Length 180;
Best Local Similarity 65.5%; Pred. No. 1.3e-12;
Matches 57; Conservative 2; Mismatches 19; Indels 9; Gaps 2;
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QY      61 PPAYPVTSYPPISQDPLPIRSPQP 87
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DB      134 SHGCPPLATCLPTC---HLPTPEPARP 157
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RESULT 7
US-10-437-963-174234
; Sequence 174234, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: Plants and Uses Thereof for Plant Improvement
; CURRENT APPLICATION NUMBER: US/10/437,963
; PRIOR FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 174234
; LENGTH: 311
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(311)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_72195C.1.pap
US-10-437-963-174234
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Query Match      10.1%; Score 123.5; DB 16; Length 311;
Best Local Similarity 23.1%; Pred. No. 0.18;
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DB      53 WAPAPLTTTSMADVEDDDDDXXFATTAPRPVWGTHHHAADDDHDEQALBOELSE 112
      |||||
QY      117 CEDADEDEDYNNPGYLVLPDSTPA---TSTAAPSALSTPG----- 157
      |||||
DB      113 DEVDNDADEHHEH---ETEDATPEPAMNKAAPAPKOTENQSKELKKELERL 168
      |||||
QY      158 ---IRDSAFSMESIDYVNVPSGSAEASLDSREYVNVVSOELHFGAKTEPALSSQE 214
      |||||
DB      169 DALIAELBSKSNDDAQETNGKGAEOADGE-----NKGAPAPAESK-----SSKK 218
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QY      215 AEEVEEAGAPDYENIQELN 233
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RESULT 8
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; Sequence 63228, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
US-10-425-114-63228
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; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 63228
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB180-024-A2_F11.pep
US-10-425-114-63228
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Query Match          9.8%; Score 120.5; DB 15; Length 371;
Best Local Similarity 25.2%; Pred. No. 0.39;
Matches 62; Conservative 31; Mismatches 102; Indels 51; Gaps 11;
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DB 11 VLAGIILALVA--MAVAVHAHAPAHSPSEST-SPSEAPAGAPDAREMETPMSPAEA 67
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 66 PVTSYRPLQPDLLPIRSPQPLGSHRTSSRRDSDGANSVA-SYENEEPA-----ED 119
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 68 PV-----LYGNAAPASPEEAGAPAMPGFDPANGAPAAASPEED 107
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QY 120 ADEDEDYHNPGLVLPDSTPATSTAA--PSAPALSTPGIRDSAFSMESIDYVNVPE 176
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 108 ATMAPADYDANGSTAASPEEYVAPAPADVDANGAPAASEVAPAPMAPLSPASSESP 167
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 177 SGE-----SAEASLDGSRBYNVSOGLHPGAK-----TEPALSSOEAEVEE--E 221
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 168 EAPMAPDLSPSASEAPBEERAPMAPDLSPSASEAEHELPTMAPLSPVASESPETPA 227
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 222 GAPDYE 227
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 228 GAPEFE 233
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RESULT 9
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; Sequence 146700, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 146700
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)-(468)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_4729C.1.pep
US-10-437-963-146700
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Query Match          9.8%; Score 120.5; DB 16; Length 468;
Best Local Similarity 24.9%; Pred. No. 0.52;
Matches 54; Conservative 28; Mismatches 82; Indels 53; Gaps 7;
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QY 31 RUPGSYDSTSSDLYPRGIQFKRPHTVAPWPAPYPTVSYPPLSQPDLLPIRSPQLG 90
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DB 6 RRGSG-----LARGQMARREVARWLBELAPVTGTPSETTXKRPKRVK----- 53
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QY 91 SHRTSSRRDSDGANSVASYENEEPACEADDEDYHNPGLVLPDSTPATSTAAPEA 150
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DB 54 --EKVRRKESDAGPDMMAEEGAPASVAEDGE-----GQAPQPPAPAPSPS-SA 104
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 151 PALSTPGIRDSAFSMESIDYVNVPESGESAA-----SLDGSREYVNVSOGLHPGAKT 205
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 105 PATS-----VQVPTADVAQAALQTRALNTSLNQLVVFQAPAS 147
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 206 EPAA-----LSQOEAEVEEAGADYENLOEL 232
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 148 GPAAPTALAVQAQSLDPPAAQAEADMEARQNMTRL 184
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RESULT 10
US-10-367-057-43
; Sequence 43, Application US/10367057
; Publication No. US2005010054A1
; GENERAL INFORMATION:
; APPLICANT: Cuthill, Scott;
; APPLICANT: Jackson, Amanda;
; APPLICANT: Lewin, David A.;
; APPLICANT: Ooi, Chean Eng
; TITLE OF INVENTION: Complexes and Methods of Using Same
; FILE REFERENCE: 21402-559
; CURRENT APPLICATION NUMBER: US/10/367,057
; CURRENT FILING DATE: 2003-02-14
; PRIOR APPLICATION NUMBER: 60/256,911
; PRIOR FILING DATE: 2002-02-14
; NUMBER OF SEQ ID NOS: 198
; SOFTWARE: Curaseqlist version 0.1
; SEQ ID NO 43
; LENGTH: 2127
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-367-057-43
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Query Match          9.5%; Score 116; DB 17; Length 2127;
Best Local Similarity 24.9%; Pred. No. 7.6;
Matches 52; Conservative 20; Mismatches 85; Indels 52; Gaps 7;
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QY 35 SYDSTSSDLYPRGIQFKRPHTVAPWPAPYPTVSYPPLSQPDLLPIRSPQ-PLGSHR 93
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 1477 SFGSQQTNTVP-----PSAPPTTAATPLPTSPFLTSPGLSSATTPSLPMSAGRS 1529
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 94 T-----PSSRRSDGANSVASYENEEPACEADDEDYHNPGLVLPDSTPATIST 145
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 1530 TEEATSSALPERKGCSEVASAASALLEEQSAQ-----LPQAPPTQSD 1572
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 146 AAPSAPALSTPGIRDS-----AFSMESIDYVNVPESGESAAEASLDGSRBYNVS 195
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 1573 SVKKEPVLAQPAVNSGTAASSTSLVALSAEATPTTGVPDA--RTEAVPPASSFSV--- 1627
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 196 OELHPGAKTPEPALSSOEAEVEEGAP 224
   |||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 1628 ----EQGTAVTAAAISSAGPVAVERSSSTP 1652
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RESULT 11
US-10-128-714-3305
; Sequence 3305, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengli
; APPLICANT: Tishkoff, Daniel
```

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1  APPLICANT: Zamudio, Carlos
2  APPLICANT: Eroshkin, Alexey M
3  APPLICANT: Lemieux, Sebastien M
4  TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
5  TITLE OF INVENTION: Methods of Use
6  FILE REFERENCE: 10182-018-9959
7  CURRENT APPLICATION NUMBER: US/10/128,714
8  CURRENT FILING DATE: 2002-04-23
9  PRIOR APPLICATION NUMBER: US 60/285,697
10 PRIOR FILING DATE: 2001-04-23
11 PRIOR APPLICATION NUMBER: US 60/287,066
12 PRIOR FILING DATE: 2001-04-27
13 PRIOR APPLICATION NUMBER: US 60/295,890
14 PRIOR FILING DATE: 2001-06-05
15 PRIOR APPLICATION NUMBER: US 60/303,899
16 PRIOR FILING DATE: 2001-07-09
17 PRIOR APPLICATION NUMBER: US 60/316,362
18 PRIOR FILING DATE: 2001-08-31
19 NUMBER OF SEQ ID NOS: 8603
20 SOFTWARE: PatentIn version 3.1
21 SEQ ID NO 3305
22 LENGTH: 1000
23 TYPE: prt
24 ORGANISM: Aspergillus fumigatus
25 US-10-128-714-3305

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OTHER INFORMATION: X=any amino acid
US-10-282-122A-69392

Query Match 9.3%; Score 113.5; DB 15; Length 735;
Best Local Similarity 26.7%; Pred. No. 3.2;
Matches 55; Conservative 22; Mismatches 80; Indels 49; Gaps 11;
QY 53 RPHVAPWPPVPPVTSYPLSQPDLPIPRSPQ-----LGGSHRTPSRRSDG---- 103
DB 413 QPRAVAPPAVAVPEAKAE--APQIKPEP-EQPKTQACAGKRNASAVRVESAGGRKA 469
QY 104 -----ANSVASYENE-----EPACEDADEDEDYHNPGYLVLPDSTPATSTTA 146
DB 470 CRARABARARARSCAEVEARPEPEVPAEVLFTVSEQPD-----LTPMPAPAPASP 520
QY 147 APGAP-ALSTPGIRDSAFS---MESIDD--YVNVPSGESASASLDGSRYYVNSQELMP 200
DB 521 VPPAPQAQSPPEVEQOVTPAMLEAIPDSAYLSAFMDRDEDEPPADD---DYVEPDIDIDP 577
QY 201 GAAK--TEPAALSQEAEEVEEGAP 224
DB 578 ASYSYDELHESVELEAVEPEBPAP 603

RESULT 14
US-10-473-127-634
Sequence 634, Application US/10473127
Publication No. US20040236091A1
GENERAL INFORMATION:
APPLICANT: Zycos Inc.
TITLE OF INVENTION: TRANSLATIONAL PROFILING
FILE REFERENCE: 08191-026W01
CURRENT APPLICATION NUMBER: US/10/473,127
PRIOR FILING DATE: 2003-09-26
PRIOR APPLICATION NUMBER: 60/279,495
PRIOR FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: 60/292,544
PRIOR FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: 60/310,801
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/326,370
PRIOR FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: 60/336,780
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 60/358,985
PRIOR FILING DATE: 2002-02-20
NUMBER OF SEQ ID NOS: 2041
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 634
LENGTH: 2414
TYPE: PRT
ORGANISM: Homo sapiens
US-10-473-127-634

Query Match 9.3%; Score 113.5; DB 16; Length 2414;
Best Local Similarity 24.2%; Pred. No. 14;
Matches 55; Conservative 24; Mismatches 103; Indels 45; Gaps 9;
QY 27 VHCRLPGSYDSTSSDLYPRGIGFKRPHTVAPWPPA-YPPVTSYP-PLSQPDLPIPRPS 84
DB 817 IHCPLPQPALHONSSPVPS--RTPTPHHTPPSIGAQOPPATTTIPAVPTPPAMPBPQ 874
QY 85 PPLGSGSHRTPSRRSDGANSVASYENEPACEDADEDEDYHNPGYLVLPDSTPATST 144
DB 875 SQL---HPPRQTPPTTQLPQOVQPSLPAAPSADQPQQ-----PRSQOSTA 921
QY 145 TAAPS-----APALSTPGIRDSAFMSISIDYVNVPSGESASASLDGSRYYVNV 194
DB 922 ASVPTFNAPLPPQPATPLSQPAV-----SIEGVSNPSTSTSTEVNSQALAE-KOP 972
QY 195 SQL-----HPGAaktePALSSQEAEEVEEGAPDYENLOEL 232
DB 973 SOEVKMEAKMEVDQPEPADTQPEDISESKVEDCKMESTETERSTEL 1019

RESULT 15
US-10-473-127-641
Sequence 641, Application US/10473127
Publication No. US20040236091A1
GENERAL INFORMATION:
APPLICANT: Zycos Inc.
TITLE OF INVENTION: TRANSLATIONAL PROFILING
FILE REFERENCE: 08191-026W01
CURRENT APPLICATION NUMBER: US/10/473,127
PRIOR FILING DATE: 2003-09-26
PRIOR APPLICATION NUMBER: 60/279,495
PRIOR FILING DATE: 2001-03-28
PRIOR APPLICATION NUMBER: 60/292,544
PRIOR FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: 60/310,801
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/326,370
PRIOR FILING DATE: 2001-10-01
PRIOR APPLICATION NUMBER: 60/336,780
PRIOR FILING DATE: 2001-12-04
PRIOR APPLICATION NUMBER: 60/358,985
PRIOR FILING DATE: 2002-02-20
NUMBER OF SEQ ID NOS: 2041
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 641
LENGTH: 2414
TYPE: PRT
ORGANISM: Homo sapiens
US-10-473-127-641

Query Match 9.3%; Score 113.5; DB 16; Length 2414;
Best Local Similarity 24.2%; Pred. No. 14;
Matches 55; Conservative 24; Mismatches 103; Indels 45; Gaps 9;
QY 27 VHCRLPGSYDSTSSDLYPRGIGFKRPHTVAPWPPA-YPPVTSYP-PLSQPDLPIPRPS 84
DB 817 IHCPLPQPALHONSSPVPS--RTPTPHHTPPSIGAQOPPATTTIPAVPTPPAMPBPQ 874
QY 85 PPLGSGSHRTPSRRSDGANSVASYENEPACEDADEDEDYHNPGYLVLPDSTPATST 144
DB 875 SQL---HPPRQTPPTTQLPQOVQPSLPAAPSADQPQQ-----PRSQOSTA 921
QY 145 TAAPS-----APALSTPGIRDSAFMSISIDYVNVPSGESASASLDGSRYYVNV 194
DB 922 ASVPTFNAPLPPQPATPLSQPAV-----SIEGVSNPSTSTSTEVNSQALAE-KOP 972
QY 195 SQL-----HPGAaktePALSSQEAEEVEEGAPDYENLOEL 232
DB 973 SOEVKMEAKMEVDQPEPADTQPEDISESKVEDCKMESTETERSTEL 1019

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Job time: 165 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 15, 2005, 08:50:03 ; Search time 4091 Seconds
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1726.308 Million cell updates/sec

Title: US-09-597-920B-1

Perfect score: 1060
Sequence: 1 gactctgccttgaggggcc.....aaaaaaaaaaaaaaaa 1060

Scoring table:
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Searched: 7389322 seqs, 333128559 residues

Total number of hits satisfying chosen parameters: 14778644

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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26:	/cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	949.2	89.5	1224	9	US-09-739-907-13
2	949.2	89.5	1224	11	US-09-938-671-13
3	949.2	89.5	1224	21	US-10-935-098-13
4	932	87.9	1460	21	US-10-651-237-12
5	932	87.9	1460	21	US-10-782-413-12
6	932	87.9	1488	20	US-10-723-860-5712
7	454	42.8	518	20	US-10-723-860-1195

C	8	454	42.8	518	22	US-10-756-149-1162	Sequence 1162, Ap
	9	424	40.0	457	15	US-10-102-524-1371	Sequence 1371, Ap
	10	416.8	39.3	528	18	US-10-641-643-565	Sequence 565, App
	11	271.6	25.6	319	9	US-09-796-692-5333	Sequence 5333, Ap
	12	271.6	25.6	319	14	US-10-040-862-5333	Sequence 5333, Ap
	13	271.6	25.6	319	17	US-10-057-475B-5333	Sequence 5333, Ap
	14	271.6	25.6	319	17	US-10-154-884B-5333	Sequence 5333, Ap
	15	271.6	25.6	319	19	US-10-764-324-5333	Sequence 5333, Ap
	16	208	19.6	421	9	US-09-796-692-5582	Sequence 5582, Ap
	17	208	19.6	421	14	US-10-040-862-5582	Sequence 5582, Ap
	18	208	19.6	421	17	US-10-057-475B-5582	Sequence 5582, Ap
	19	208	19.6	421	17	US-10-154-884B-5582	Sequence 5582, Ap
	20	208	19.6	421	19	US-10-764-324-5582	Sequence 5582, Ap
	21	205.2	19.4	400	17	US-10-242-535A-9083	Sequence 9083, Ap
	22	205.2	19.4	400	18	US-10-085-783A-9083	Sequence 9083, Ap
	23	117	11.0	117	9	US-09-796-692-5736	Sequence 5736, Ap
	24	117	11.0	117	14	US-10-040-862-5736	Sequence 5736, Ap
	25	117	11.0	117	17	US-10-057-475B-5736	Sequence 5736, Ap
	26	117	11.0	117	17	US-10-154-884B-5736	Sequence 5736, Ap
	27	117	11.0	117	19	US-10-764-324-5736	Sequence 5736, Ap
	28	54.6	5.2	6307	21	US-10-502-332-1	Sequence 1, Appl
	29	54.2	5.1	314	22	US-10-756-149-2659	Sequence 2659, Ap
	30	49.6	4.7	2968	9	US-09-925-301-584	Sequence 584, App
	31	49.6	4.7	2968	15	US-10-106-698-1500	Sequence 1500, Ap
	32	48.8	4.6	500	20	US-10-425-115-83126	Sequence 83126, A
	33	47.4	4.5	1419	19	US-10-437-963-25990	Sequence 25990, A
	34	47.4	4.5	3196	9	US-09-782-980-50	Sequence 50, Appl
	35	47.4	4.5	3196	19	US-10-806-018-50	Sequence 50, Appl
	36	46.6	4.4	227	20	US-10-357-930-56558	Sequence 56558, A
	37	46	4.3	203	20	US-10-106-698-1500	Sequence 47892, A
	38	46	4.3	477	10	US-09-918-995-10907	Sequence 10907, A
	39	45.8	4.3	2022	19	US-10-437-963-21276	Sequence 21276, A
	40	45.6	4.3	468	10	US-09-918-995-21830	Sequence 21830, A
	41	45.6	4.2	599	22	US-10-972-072-94492	Sequence 94492, A
	42	45	4.2	496	18	US-10-240-425-154	Sequence 154, App
	43	45	4.2	777	14	US-10-184-644-348	Sequence 348, App
	44	45	4.2	777	14	US-10-184-644-348	Sequence 348, App
	45	44.8	4.2	173	9	US-09-834-975-589	Sequence 589, App

ALIGNMENTS

RESULT 1
US-09-739-907-13
; Sequence 13, Application US/09739907
; Patent No. US20010012889A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 36 Human Secreted Proteins
; FILE REFERENCE: P2022P1
; CURRENT APPLICATION NUMBER: US/09/739,907
; CURRENT FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/348,457
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: 60/070,567
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,692
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,704
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,658
; PRIOR FILING DATE: 1998-01-07
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 1224
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1205)
; OTHER INFORMATION: n equals a,t,g, or c


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QY 480 GGGCACTAGACATGCTGCTGCCCCCATCATAGCTCTCTGCACTGACACCCCTGGCATCCGAGACAG 539
Db 659 GGGCACACTA-CACGTGCTGCCCCCATCAGCTCTCTGCACTTCAGACACCCCTGGCATCCGAGACAG 717
QY 540 TGGCTTCTCCATGAGTGCATTTGATGATTAAGTAAAGCTTCCGAGAGCGGGAGAGCGG 599
Db 718 TGGCTTCTCCATGAGTGCATTTGATGATTAAGTAAAGCTTCCGAGAGCGGGAGAGCGG 777
QY 600 AGAAGCGTCTCTGATGAGGACGCGGAGTATGTAATGTGTCCAGAGACCTGATCTCGG 659
Db 778 AGAAGCGTCTCTGATGAGGACGCGGAGTATGTAATGTGTCCAGAGACCTGATCTCGG 837
QY 660 AGCGGCTTAAGACTGAGCTGCGCCGCTTGAAGTTCCTCCAGAGAGCAGAGAAAGTGAAGAGA 719
Db 838 AGCGGCTTAAGACTGAGCTGCGCCGCTTGAAGTTCCTCCAGAGAGCAGAGAAAGTGAAGAGA 897
QY 720 GGGGGCTCCAGATTAGAGAAATGTCAGAGAGCTGAACTGAGGGCTGTGAGGCGGAGTC 779
Db 898 GGGGGCTCCAGATTAGAGAAATGTCAGAGAGCTGAACTGAGGGCTGTGAGGCGGAGTC 957
QY 780 TGTCTGGAACCAAGGCTTGTGCTGAGACGCTGAGCTGAGGCTGGAAGTGTGCTGAGG 839
Db 958 TGTCTGGAACCAAGGCTTGTGCTGAGACGCTGAGCTGAGGCTGGAAGTGTGCTGAGG 1017
QY 840 TCTCTACATGAGGCTGCTGCTTGTCTGCTGAGCTGAGCAACAGCTGAGAAATCCCGCCGTA 899
Db 1018 TCTCTACATGAGGCTGCTGCTTGTCTGCTGAGCTGAGCAACAGCTGAGAAATCCCGCCGTA 1077
QY 900 ACTTATTATACATTGGGGTTGCGGCTGTGTCCTCCGAAAGCTGTGACCTTGTGACGA 959
Db 1078 ACTTATTATACATTGGGGTTGCGGCTGTGTCCTCCGAAAGCTGTGACCTTGTGACGA 1135
QY 960 GCGTGAAGATGACCTGCTGCTGCGCCGACCCCTACTCTGTGTAATAGATTAAGGCTCGG 1019
Db 1136 GCGTGAAGATGACCTGCTGCTGCGCCGACCCCTACTCTGTGTAATAGATTAAGGCTCGG 1193
QY 1020 TGTGTCTGTGAAAAAATGAAAAAATGAAAAA 1050
Db 1194 TGTGTCTGTGTAATAAATGAAAAAATGAAAAA 1224

RESULT 3
US-10-935-098-13
; Sequence 13, Application US/10935098
; Publication No. US20050042667A1
; GENERAL INFORMATION:
; APPLICANT: Lafleur et al.
; TITLE OF INVENTION: 36 Human Secreted Proteins
; FILE REFERENCE: P2022P1C3
; CURRENT APPLICATION NUMBER: US/10/935,098
; PRIOR FILING DATE: 2004-09-08
; PRIOR APPLICATION NUMBER: 09/938,671
; PRIOR FILING DATE: 2001-08-27
; PRIOR APPLICATION NUMBER: 09/739,907
; PRIOR FILING DATE: 2000-12-20
; PRIOR APPLICATION NUMBER: 09/348,457
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: PCT/US99/00108
; PRIOR FILING DATE: 1999-01-06
; PRIOR APPLICATION NUMBER: 60/070,657
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,692
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,704
; PRIOR FILING DATE: 1998-01-07
; PRIOR APPLICATION NUMBER: 60/070,658
; PRIOR FILING DATE: 1998-01-07
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 1224
; TYPE: DNA
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ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1205)
OTHER INFORMATION: n equals a,t,g, or c
US-10-935-098-13

Query Match      89.5%; Score 949.2; DB 21; Length 1224;
Best Local Similarity 98.9%; Pred. No. 2.2e-261;
Matches 1039; Conservative 0; Mismatches 4; Indels 9; Gaps 8;

QY 1 GACTGCGCCCTGAGAGGAGCTGAGGAGTGGAGAGAGCTGCTCCAGACTCCCTGAGATG 60
Db 181 GACTGCGCCCTGAGAGGAGCTGAGGAGTGGAGAGAGCTGCTCCAGACTCCCTGAGATG 240
QY 61 GAGGAGGCAATCTGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
Db 241 GAGGAGGCAATCTGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
QY 121 TTGATGGCACTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
Db 301 TTGATGGCACTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
QY 181 GATAGTTGTATCC-AAAGGGGCAATCGATTCAAAAGGCGCTCAAGGTTGCCCCCTGAGCC 239
Db 361 GATAGTTGTATCCAAAGGGGCAATCGATTCAAAAGGCGCTCAAGGTTGCCCCCTGAGCC 420
QY 240 ACTGCGCTACCCACCTGTGACCTCTTACCCACCCCTGAGCCAGCCAGCTGTCTCCCAT 299
Db 421 ACTGCGCTACCCACCTGTGACCTCTTACCCACCCCTGAGCCAGCCAGCTGTCTCCCAT 480
QY 300 CCCAAGATCCCGGACGCTCTTGGGGGCTTCCCAAGCCAGCCATCTTCCCGGGGATTC 359
Db 481 CCCAAGATCCCGGACGCTCTTGGGGGCTTCCCAAGCCAGCCATCTTCCCGGGGATTC 540
QY 360 TGAATGTCGCAACAGTGTGCGGAGCTACGAGAAACGAGAAACGAGCTGTGAGGATGCA 419
Db 541 TGAATGTCGCAACAGTGTGCGGAGCTACGAGAAACGAGAAACGAGCTGTGAGGATGCA 599
QY 420 TGAGATGAGAGACGATATCACAAACGAGGCTACTGTGTGCTTCTGACAGCACCC 479
Db 600 TGA-GATGAGAGACGATATCACAAACGAGGCTACTGTGTGCTTCTGACAGCACCC 658
QY 480 GGCCTAGACATGCTGCTGCCCCATCAGCTCTCTGCACTGAGACCTCTGCAATCCGAGACAG 539
Db 659 GGCCTAGACATGCTGCTGCCCCATCAGCTCTCTGCACTGAGACCTCTGCAATCCGAGACAG 717
QY 540 TGGCTTCTCCATGAGTGCATTTGATGATTAAGTAAAGCTTCCGAGAGCGGGAGAGCGG 599
Db 718 TGGCTTCTCCATGAGTGCATTTGATGATTAAGTAAAGCTTCCGAGAGCGGGAGAGCGG 777
QY 600 AGAAGCGTCTCTGATGAGGACGCGGAGTATGTAATGTGTCCAGAGACCTGATCTCGG 659
Db 778 AGAAGCGTCTCTGATGAGGACGCGGAGTATGTAATGTGTCCAGAGACCTGATCTCGG 837
QY 660 AGCGGCTTAAGACTGAGCTGCGCCGCTTGAAGTTCCTCCAGAGAGCAGAGAAAGTGAAGAGA 719
Db 838 AGCGGCTTAAGACTGAGCTGCGCCGCTTGAAGTTCCTCCAGAGAGCAGAGAAAGTGAAGAGA 897
QY 720 GGGGGCTCCAGATTAGAGAAATGTCAGAGAGCTGAACTGAGGGCTGTGAGGCGGAGTC 779
Db 898 GGGGGCTCCAGATTAGAGAAATGTCAGAGAGCTGAACTGAGGGCTGTGAGGCGGAGTC 957
QY 780 TGTCTGGAACCAAGGCTTGTGCTGAGACGCTGAGCTGGAAGTGTGCTGAGG 839
Db 958 TGTCTGGAACCAAGGCTTGTGCTGAGACGCTGAGCTGGAAGTGTGCTGAGG 1017
QY 840 TCTCTACATGAGGCTGCTGCTTGTCTGCTGAGCTGAGCAACAGCTGAGAAATCCCGCCGTA 899
Db 1018 TCTCTACATGAGGCTGCTGCTTGTCTGCTGAGCTGAGCAACAGCTGAGAAATCCCGCCGTA 1077
QY 900 ACTTATTATACATTGGGGTTGCGGCTGTGTCCTCCGAAAGCTGTGACCTTGTGACGA 959
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Db 142 TTGATGGCAGCTGTGTGTGCACTGCGACAGACAGTCCAGGCTCTTACGACAGACATCTCTCA 201
QY 181 GATAGTTTGTATCCAMGGGCGATCACTTCAAAACGCGCTTCAACAGGTTGCCCTTGCGCA 240
Db 202 GATAGTTTGTATCCAMGGGCGATCACTTCAAAACGCGCTTCAACAGGTTGCCCTTGCGCA 261
QY 241 CCGGCGTACCGCTGTGCACTCTCTTACCGACCCCTGAGCGACAGACAGCTCTTCCCATC 300
Db 262 CCGGCGTACCGCTGTGCACTCTCTTACCGACCCCTGAGCGACAGACAGCTCTTCCCATC 321
QY 301 CCAAGATCCCGGAGCGCTTGGGGGCTCCACCGAGCGCATCTTCCCGGCGGATTTCT 360
Db 322 CCAAGATCCCGGAGCGCTTGGGGGCTCCACCGAGCGCATCTTCCCGGCGGATTTCT 381
QY 361 GATGTGTCCAAACAGTGTGGCGAGCTACGAGAACGAG----- 396
Db 382 GATGTGTCCAAACAGTGTGGCGAGCTACGAGAACGAGGGTGTCTGGGATCCGAGGTGCC 441
QY 397 ----- 396
Db 442 CAGGCTGGTGGGGAGTCTGGGGTCCGTCTGTGAATAAGCTGACCCCTGTGTCTTACCC 501
QY 397 ---GAAACAGCTGTGAGATGAGATGAGATGAGAGCGACTATCAACCCAGGCTAC 453
Db 502 CCAAGAACAGCTGTGAGATGAGATGAGATGAGAGCGACTATCAACCCAGGCTAC 561
QY 454 CTGGTGTGCTTCTTGACAGACACCCCGGCACTAGCACTGTGTGCCCATCAGCTCTCTGCA 513
Db 562 CTGGTGTGCTTCTTGACAGACACCCCGGCACTAGCACTGTGTGCCCATCAGCTCTCTGCA 621
QY 514 CTGAGACCCCTTGGCATCCGAGACAGTGTCTTCTTCCATGAGATGATGATGATGATGATG 573
Db 622 CTGAGACCCCTTGGCATCCGAGACAGTGTCTTCTTCCATGAGATGATGATGATGATGATG 681
QY 574 AACGTTCCGAGAGACGGGAGAGAGCGAGCGCTCTGTGATGAGACGGGAGATGATG 693
Db 682 AACGTTCCGAGAGACGGGAGAGAGCGAGCGCTCTGTGATGAGACGGGAGATGATG 741
QY 634 AATGTGTCCAGAGATGATCTTGTGAGCGGCTTAAAGCTGAGCCTGTGCGGCTTGAATTC 693
Db 742 AATGTGTCCAGAGATGATCTTGTGAGCGGCTTAAAGCTGAGCCTGTGCGGCTTGAATTC 801
QY 694 CAGAGGCGAGAGAGATGAGAGAGAGAGGCGCTTCCAGATTAAGAGATCTGAGAGAGCTG 753
Db 802 CAGAGGCGAGAGAGATGAGAGAGAGAGGCGCTTCCAGATTAAGAGATCTGAGAGAGCTG 861
QY 754 AACTGAGGCGCTGTGAGAGCGAGTCTGTCTGTGAACCAAGCTTGGCTTGGAGCGGCTGAG 813
Db 862 AACTGAGGCGCTGTGAGAGCGAGTCTGTCTGTGAACCAAGCTTGGCTTGGAGCGGCTGAG 921
QY 814 CTGGGAGCTGGAAGTGGCTCTTGGGGTCTTCAATGAGCGTCTTGCCTTGGCTTCAAGCTG 873
Db 922 CTGGGAGCTGGAAGTGGCTCTTGGGGTCTTCAATGAGCGTCTTGCCTTGGCTTCAAGCTG 981
QY 874 ACAACAGCGCTGGAAGATCCCGGCTTAACTTATATCACTTGGGGTCTGCGCTGTGTCCC 933
Db 982 ACAACAGCGCTGGAAGATCCCGGCTTAACTTATATCACTTGGGGTCTGCGCTGTGTCCC 1041
QY 934 CCGAAGCGCTTGTGACCTTGTGAGCGAGCTGAGATGACCTGCGCTTGGCGCCAGCGCTTAC 993
Db 1042 CCGAAGCGCTTGTGACCTTGTGAGCGAGCTGAGATGACCTGCGCTTGGCGCCAGCGCTTAC 1101
QY 994 TCTGTGTATATGAATAAAGGCTGTGCTGTGTG 1029
Db 1102 TCTGTGTATATGAATAAAGGCTGTGCTGTGTG 1137

RESULT 6
US-10-723-860-5712
; Sequence 5712, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha

; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5712
; LENGTH: 1488
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-860-5712

Query Match 87.9%; Score 932; DB 20; Length 1488;
Best Local Similarity 92.2%; Pred. No. 2e-256;
Matches 1029; Conservative 0; Mismatches 0; Indels 87; Gaps 1;

QY 1 GACTTGCCCTTGAAGGAGGCTTGAAGGAGTGGAGCGAGCGCTCTCGAGCTCCCTGACAGATG 60
Db 22 GACTTGCCCTTGAAGGAGGCTTGAAGGAGTGGAGCGAGCGCTCTCGAGCTCCCTGACAGATG 81
QY 61 GAGAGGCGATCTGTGCTTCCCTGCGTGTGAGGAGCTTCTGTGTGCTGCTGCTGCTGCTGCTG 120
Db 82 GAGAGGCGATCTGTGCTTCCCTGCGTGTGAGGAGCTTCTGTGTGCTGCTGCTGCTGCTGCTG 141
QY 121 TTGATGGCAGCTGTGTGTGCACTGCGACAGATGCGAGGCTTCTTACAGACAGACATCTCTCA 180
Db 142 TTGATGGCAGCTGTGTGTGCACTGCGACAGATGCGAGGCTTCTTACAGACAGACATCTCTCA 201
QY 181 GATAGTTTGTATCCAMGGGCGATCACTTCAAAACGCGCTTCAACAGGTTGCCCTTGCGCA 240
Db 202 GATAGTTTGTATCCAMGGGCGATCACTTCAAAACGCGCTTCAACAGGTTGCCCTTGCGCA 261
QY 241 CCGGCGTACCGCTGTGCACTCTCTTACCGACCCCTGAGCGACAGACAGCTCTTCCCATC 300
Db 262 CCGGCGTACCGCTGTGCACTCTCTTACCGACCCCTGAGCGACAGACAGCTCTTCCCATC 321
QY 301 CCAAGATCCCGGAGCGCTTGGGGGCTCCACCGGACCGCATCTTCCCGGCGGATTTCT 360
Db 322 CCAAGATCCCGGAGCGCTTGGGGGCTCCACCGGACCGCATCTTCCCGGCGGATTTCT 381
QY 361 GATGTGTCCAAACAGTGTGGCGAGCTTACGAGAACGAG----- 396
Db 382 GATGTGTCCAAACAGTGTGGCGAGCTTACGAGAACGAGGGTGTCTGGGATCCGAGGTGCC 441
QY 397 ----- 396
Db 442 CAGGCTGGTGGGGAGTCTGGGGTCCGTCTGTGAATAAGCTGACCCCTGTGTCTTACCC 501
QY 397 ---GAAACAGCTGTGAGATGAGATGAGATGAGAGCGACTATCAACCCAGGCTAC 453
Db 502 CCAAGAACAGCTGTGAGATGAGATGAGATGAGAGCGACTATCAACCCAGGCTAC 561
QY 454 CTGGTGTGCTTCTTGACAGACACCCCGGCACTAGCACTGTGTGCCCATCAGCTCTCTGCA 513
Db 562 CTGGTGTGCTTCTTGACAGACACCCCGGCACTAGCACTGTGTGCCCATCAGCTCTCTGCA 621
QY 514 CTGAGACCCCTTGGCATCCGAGACAGTGTCTTCTTCCATGAGTCCATGATGATTAAGT 573
Db 622 CTGAGACCCCTTGGCATCCGAGACAGTGTCTTCTTCCATGAGTCCATGATGATTAAGT 681
QY 574 AACGTTCCGAGAGACGGGAGAGCGAGAGGCTCTGTGATGAGCGCGGAGATGATG 633
Db 682 AACGTTCCGAGAGACGGGAGAGCGAGAGGCTCTGTGATGAGCGCGGAGATGATG 741
QY 634 AATGTGTCCAGAGATGATCTTGTGAGCGGCTTAAAGATGAGAGCTGCGCGCTGAGTTCC 693
Db 742 AATGTGTCCAGAGATGATCTTGTGAGCGGCTTAAAGATGAGAGCTGCGCGCTGAGTTCC 801

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QY 694 CAGAGGACAGAGGAGTGAAGAGAGGGGCTCCAGATTACAGAACTCTGACAGAGCTG 753
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Db 802 CAGAGGACAGAGGAGTGAAGAGAGGGGCTCCAGATTACAGAACTCTGACAGAGCTG 861
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QY 754 AACTGAGGGCTGTGAGAGGCGGAGTGTCTGTGGAACAGAGCTTGCGTGGACGGCTGAG 813
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Db 862 AACTGAGGGCTGTGAGAGGCGGAGTGTCTGTGGAACAGAGCTTGCGTGGACGGCTGAG 921
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QY 814 CTGGGAGCTGGAAGTGGCTGTGGGGTCTCAGATGGCGGCTGCGCCCTTGCTCAGAGCTG 873
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Db 922 CTGGGAGCTGGAAGTGGCTGTGGGGTCTCAGATGGCGGCTGCGCCCTTGCTCAGAGCTG 981
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  |||
QY 874 ACAACAGCTGAGAAATCCCCCGTAATTATTATCATCTTGAGGGTTGCGCTGTGCTCC 933
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Db 982 ACAACAGCTGAGAAATCCCCCGTAATTATTATCATCTTGAGGGTTGCGCTGTGCTCC 1041
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  |||
QY 934 CCGAAGCTGTGACCTTCTGACGCGAGCCTGGAATGACCTGCGCCCTGAGCCCTAC 993
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  |||
Db 1042 CCGAAGCTGTGACCTTCTGACGCGAGCCTGGAATGACCTGCGCCCTGAGCCCTAC 1101
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QY 994 TCTGTGTAATGAATTAAGGCGCTGCGTGTGCTGTG 1029
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Db 1102 TCTGTGTAATGAATTAAGGCGCTGCGTGTGCTGTG 1137
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RESULT 7
US-10-723-860-1195/c
; Sequence 1195, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193, NPUS01
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US/10/723,860
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1195
; LENGTH: 518
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-860-1195

Query Match 42.8%; Score 454; DB 20; Length 518;
Best Local Similarity 92.3%; Pred. No. 1.3e-119;
Matches 478; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

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QY 520 ACCCTTGCGATCCGAGACATGCTTCTCCATGAGTCCATTGATTAAGTAAAGTT 579
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Db 518 ACTCCATGCAATCCAGTCCGCTTCTCCATTACGATCATGATATCTCCAGACGTT 459
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QY 580 CCGGAGGCGGGAGAGCGCAGAAAGGCTCTGGAAGCGAGCGGGAGTATGGAATG 639
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Db 458 CCGGAGGCGGGAGAGCGCAGAAAGGCTCTGGAAGCGAGCGGGAGTATGGAATG 399
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QY 640 TCCAGGAATGATCTGTGAGCGGCTTAAGATGAGCTGCGCCCTGAATGCCAGAG 699
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Db 398 TCCAGGAATGATCTGTGAGCGGCTTAAGATGAGCTGCGCCCTGAATGCCAGAG 339
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QY 700 GCAGAGGAATGAGAGAGGGGGCTCCAGATTACAGAACTGACAGAGCTGAATGA 759
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  |||
Db 338 GCAGAGGAATGAGAGAGGGGGCTCCAGATTACAGAACTGACAGAGCTGAATGA 279
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  |||
  |||
QY 760 GGGCTGTGAGGCGGAGTGTCTGTGGAACAGAGCTTGCGGGAGCGGCTGAGCTGGG 819
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  |||
Db 278 GGGCTGTGAGGCGGAGTGTCTGTGGAACAGAGCTTGCGGGAGCGGCTGAGCTGGG 219
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QY 820 AGCTGGAATGAGCTGTGGGGTCTTCAATGCGGCTGCGCTTGCTCAGCCTGACACA 879
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Db 218 AGCTGGAATGAGCTGTGGGGTCTTCAATGCGGCTGCGCTTGCTCAGCCTGACACA 159
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QY 880 GCGTGAATAATCCCCCGTAATTATTAATCACTTTGGGGTGTGGGCTGTGCCCCGAAC 939
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Db 158 GCGTGAATAATCCCCCGTAATTATTAATCACTTTGGGGTGTGGGCTGTGCCCCGAAC 99
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QY 940 GCGTGAATGAGCTGTGAGCGAGCTGAGATGAGCTGCGCCCTGAGCCCTACTCTG 999
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Db 98 GCTGTGACCTTCTGAGGAGCTGAGAAATGAGCTGCGCCCTGAGCCCTACTCTGTG 39
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QY 1000 TAATGAATTAAGGCGCTGCGTGTGCTGTGAAAAAA 1037
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Db 38 TAATGAATTAAGGCGCTGCGTGTGCTGTGAAAAAA 1
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RESULT 8
US-10-756-149-1162/c
; Sequence 1162, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1162
; LENGTH: 518
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-756-149-1162

Query Match 42.8%; Score 454; DB 22; Length 518;
Best Local Similarity 92.3%; Pred. No. 1.3e-119;
Matches 478; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

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QY 520 ACCCTTGCGATCCGAGACATGCTTCTCCATGAGTCCATTGATTAAGTAAAGTT 579
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  |||
Db 518 ACTCCATGCAATCCAGTCCGCTTCTCCATTACGATCATGATATCTCCAGACGTT 459
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  |||
QY 580 CCGGAGGCGGGAGAGCGCAGAAAGGCTCTGGAAGCGAGCGGGAGTATGGAATG 639
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  |||
Db 458 CCGGAGGCGGGAGAGCGCAGAAAGGCTCTGGAAGCGAGCGGGAGTATGGAATG 399
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  |||
QY 640 TCCAGGAATGATCTGTGAGCGGCTTAAGATGAGCTGCGCCCTGAATGCCAGAG 699
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  |||
Db 398 TCCAGGAATGATCTGTGAGCGGCTTAAGATGAGCTGCGCCCTGAATGCCAGAG 339
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  |||
QY 700 GCAGAGGAATGAGAGAGGGGGCTCCAGATTACAGAACTGACAGAGCTGAATGA 759
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Db 338 GCAGAGGAATGAGAGAGGGGGCTCCAGATTACAGAACTGACAGAGCTGAATGA 279
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  |||
QY 760 GGGCTGTGAGGCGGAGTGTCTGTGGAACAGAGCTTGCGGGAGCGGCTGAGCTGGG 819
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  |||
Db 278 GGGCTGTGAGGCGGAGTGTCTGTGGAACAGAGCTTGCGGGAGCGGCTGAGCTGGG 219
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  |||
  |||
QY 820 AGCTGGAATGAGCTGTGGGGTCTTCAATGCGGCTGCGCTTGCTCAGCCTGACACA 879
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  |||
  |||
Db 218 AGCTGGAATGAGCTGTGGGGTCTTCAATGCGGCTGCGCTTGCTCAGCCTGACACA 159
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  |||
  |||
QY 880 GCGTGAATAATCCCCCGTAATTATTAATCACTTTGGGGTGTGGGCTGTGCCCCGAAC 939
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  |||
  |||
Db 158 GCGTGAATAATCCCCCGTAATTATTAATCACTTTGGGGTGTGGGCTGTGCCCCGAAC 99
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  |||
QY 940 GCGTGAATGAGCTGTGAGCGAGCTGAGATGAGCTGCGCCCTGAGCCCTACTCTG 999
  |||
  |||
  |||
Db 98 GCTGTGACCTTCTGAGGAGCTGAGAAATGAGCTGCGCCCTGAGCCCTACTCTGTG 39
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  |||
QY 1000 TAATGAATTAAGGCGCTGCGTGTGCTGTGAAAAAA 1037
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Db 361 CAGCCGGAAGATGACCTGCGCTGCCCGCCCGCCCTACTCTGTATAGATAAAGGCGT 420
QY 1018 CGTGTCTGTGTG 1029
Db 421 CGTGTCTGTATG 432

RESULT 11

US-09-796-692-5333
Sequence 5333, Application US/09796692
Publication No. US20020198362A1
GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
FILE REFERENCE: 2077.001200
CURRENT APPLICATION NUMBER: US/09/796,692
PRIOR FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR FILING DATE: 2000-08-07
NUMBER OF SEQ ID NOS: 9597
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5333
LENGTH: 319
TYPE: DNA
ORGANISM: Homo sapiens
US-09-796-692-5333

Query Match 25.6%; Score 271.6; DB 9; Length 319;
Best Local Similarity 98.6%; Pred. No. 2e-67;
Matches 274; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 544 TTCTCATGAGACGTCATTGATGATTCGTAAGCTTCCGAGAGCGGGAGAGCCGAGAA 603
Db 42 TCACAGTGGAGTCATTGATGATTAAGTAAAGCTTCCGAGAGCGGGAGAGCCGAGAA 101
QY 604 GCGTCTCTGGATGGACCGCGGAGTATGTGAATGTGTCCAGAGAACTGCATCTTGAGCG 663
Db 102 GCGTCTCTGGATGGACCGCGGAGTATGTGAATGTGTCCAGAGAACTGCATCTTGAGCG 161
QY 664 GCTAAGACTGAGCGCTGCGCCCTGAGTTCCAGAGAGGAGGAAGTGAAGAGAGGG 723
Db 162 GCTAAGACTGAGCGCTGCGCCCTGAGTTCCAGAGAGGAGGAAGTGAAGAGAGGG 221
QY 724 GCTCCGATTAAGAGAAATCTGCAGAGAGCTGAATCTGAGAGGCGCTTGAGGCGCGAGTCTGTC 783
Db 222 GCTCCGATTAAGAGAAATCTGCAGAGAGCTGAATCTGAGAGGCGCTTGAGAGGCGCGAGTCTGTC 281

QY 784 CTGAACAGAGCTTGCTGGAGCGGCTGAGCTGAGGAG 821
Db 282 CTGAACAGAGCTTGCTGGAGCGGCTGAGCTGAGGAG 319

RESULT 12

US-10-040-862-5333
Sequence 5333, Application US/10040862
Publication No. US20030078396A1
GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
APPLICANT: Retter, Marc
APPLICANT: Corixa Corporation
TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
FILE REFERENCE: 014058-013520US
CURRENT APPLICATION NUMBER: US/10/040,862
PRIOR FILING DATE: 2001-11-06
PRIOR APPLICATION NUMBER: US 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: US 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: US 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: US 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: US 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: US 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: US 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: US 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: US 60/223,378
PRIOR FILING DATE: 2000-08-07
PRIOR APPLICATION NUMBER: US 09/796,692
PRIOR FILING DATE: 2001-03-01
NUMBER OF SEQ ID NOS: 10467
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5333
LENGTH: 319
TYPE: DNA
ORGANISM: Homo sapiens
US-10-040-862-5333

Query Match 25.6%; Score 271.6; DB 14; Length 319;
Best Local Similarity 98.6%; Pred. No. 2e-67;
Matches 274; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 544 TTCTCATGAGACGTCATTGATGATTCGTAAGCTTCCGAGAGCGGGAGAGCCGAGAA 603
Db 42 TCACAGTGGAGTCATTGATGATTAAGTAAAGCTTCCGAGAGCGGGAGAGCCGAGAA 101
QY 604 GCGTCTCTGGATGGACCGCGGAGTATGTGAATGTGTCCAGAGAACTGCATCTTGAGCG 663
Db 102 GCGTCTCTGGATGGACCGCGGAGTATGTGAATGTGTCCAGAGAACTGCATCTTGAGCG 161
QY 664 GCTAAGACTGAGCGCTGCGCCCTGAGTTCCAGAGAGGAGGAAGTGAAGAGAGGG 723
Db 162 GCTAAGACTGAGCGCTGCGCCCTGAGTTCCAGAGAGGAGGAAGTGAAGAGAGGG 221
QY 724 GCTCCGATTAAGAGAAATCTGCAGAGAGCTGAATCTGAGAGGCGCTTGAGAGGCGCGAGTCTGTC 783
Db 222 GCTCCGATTAAGAGAAATCTGCAGAGAGCTGAATCTGAGAGGCGCTTGAGAGGCGCGAGTCTGTC 281

QY 784 CTGGAACCAAGCTTGCCTGGAGCGCTGAGCTGGGAG 821
Db 282 CTGGAACCAAGCTTGCCTGGAGCGCTGAGCTGGGAG 319

RESULT 13

US-10-057-475B-5333
; Sequence 5333, Application US/10057475B
; Publication No. US2004002068A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algarte, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Clapper, Jonathan David
; APPLICANT: Wang, Aijun
; APPLICANT: Ordenez, Nadia
; APPLICANT: Carter, Lauren
; APPLICANT: McNeill, Patricia Dianne
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
; FILE REFERENCE: 014058-014402US
; CURRENT APPLICATION NUMBER: US/10/057,475B
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: US 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: US 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: US 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: US 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: US 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/222,903
; PRIOR FILING DATE: 2000-08-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 10979
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5333
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-057-475B-5333

Query Match 25.6%; Score 271.6; DB 17; Length 319;

Best Local Similarity 98.6%; Pred. No. 2e-67; Matches 274; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 544 TTCTCATGAGATCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGAGACCGAGAA 603
Db 42 TCACAGTGGAGTCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGAGACCGAGAA 101
QY 604 GCGTCTGTGATGGCAGCGCGGAGATGTGATGTGTCCAGAACTGCATCTTGAAGCG 663
Db 102 GCGTCTGTGATGGCAGCGCGGAGATGTGATGTGTCCAGAACTGCATCTTGAAGCG 161
QY 664 GCTAAGACTGAGCTGCGCGCTGAGTTCCAGAGGCGAGAAAGTGAAGAAAGAGG 723
Db 162 GCTAAGACTGAGCTGCGCGCTGAGTTCCAGAGGCGAGAAAGTGAAGAAAGAGG 221
QY 724 GCTCAGATTACGAGAAATCTGACGAGAGCTGAAGCTGAGAGGCTGTGAGCCGAGTGTTC 783
Db 222 GCTCAGATTACGAGAAATCTGACGAGAGCTGAAGCTGAGAGGCTGTGAGCCGAGTGTTC 281

QY 784 CTGGAACCAAGCTTGCCTGGAGCGCTGAGCTGGGAG 821
Db 282 CTGGAACCAAGCTTGCCTGGAGCGCTGAGCTGGGAG 319

RESULT 14

US-10-154-884B-5333
; Sequence 5333, Application US/10154884B
; Publication No. US20040005561A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algarte, Paul A.
; APPLICANT: Mannion, Jane
; APPLICANT: Retter, Marc W.
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Compositions and Methods for the Detection, Diagnosis and Therapy
; FILE REFERENCE: 014058-013521US
; CURRENT APPLICATION NUMBER: US/10/154,884B
; PRIOR FILING DATE: 2002-05-23
; PRIOR APPLICATION NUMBER: US 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: US 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: US 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: US 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: US 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: US 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 60/222,903
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 11290
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5333
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-154-884B-5333

Query Match 25.6%; Score 271.6; DB 17; Length 319;

Best Local Similarity 98.6%; Pred. No. 2e-67; Matches 274; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 544 TTCTCATGAGATCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGAGACCGAGAA 603
Db 42 TCACAGTGGAGTCCATTGATGATTACGTGAACGTTCCGGAGAGCGGGAGACCGAGAA 101
QY 604 GCGTCTGTGATGGCAGCGCGGAGATGTGATGTGTCCAGAACTGCATCTTGAAGCG 663
Db 102 GCGTCTGTGATGGCAGCGCGGAGATGTGATGTGTCCAGAACTGCATCTTGAAGCG 161
QY 664 GCTAAGACTGAGCTGCGCGCTGAGTTCCAGAGGCGAGAAAGTGAAGAAAGAGG 723
Db 162 GCTAAGACTGAGCTGCGCGCTGAGTTCCAGAGGCGAGAAAGTGAAGAAAGAGG 221
QY 724 GCTCAGATTACGAGAAATCTGACGAGAGCTGAAGCTGAGAGGCTGTGAGCCGAGTGTTC 783
Db 222 GCTCAGATTACGAGAAATCTGACGAGAGCTGAAGCTGAGAGGCTGTGAGCCGAGTGTTC 281
QY 784 CTGGAACCAAGCTTGCCTGGAGCGCTGAGCTGGGAG 821
Db 282 CTGGAACCAAGCTTGCCTGGAGCGCTGAGCTGGGAG 319

